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arliest Priority Date:	07/04/2004		,
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Author Search

=> FILE HCAPLUS

FILE 'HCAPLUS' ENTERED AT 11:10:00 ON 21 MAR 2008
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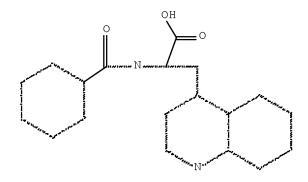
FILE COVERS 1907 - 21 Mar 2008 VOL 148 ISS 13 FILE LAST UPDATED: 20 Mar 2008 (20080320/ED)

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=> D QUE L49
L39 ( 1834)SEA FILE=HCAPLUS ABB=ON PLU=ON OKA H?/AU
L40 ( 75)SEA FILE=HCAPLUS ABB=ON PLU=ON KOHASHI M?/AU
L41 ( 107)SEA FILE=HCAPLUS ABB=ON PLU=ON NAGAMOTO H?/AU
L42 2014 SEA FILE=HCAPLUS ABB=ON PLU=ON (L39 OR L40 OR L41)
L43 ( 1)SEA FILE=REGISTRY ABB=ON PLU=ON "4-QUINOLINEPROPANOIC ACID,
A-((4-CHLOROBENZOYL)AMINO)-1,2-DIHYDRO-2-OXO-"/CN
L44 STR
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Structure attributes must be viewed using STN Express query preparation.

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L45 ( 77) SEA FILE=REGISTRY SSS FUL L44

L46 ( 302) SEA FILE=HCAPLUS ABB=ON PLU=ON L43

L47 ( 312) SEA FILE=HCAPLUS ABB=ON PLU=ON L45

L48 312 SEA FILE=HCAPLUS ABB=ON PLU=ON (L46 OR L47)

L49 2 SEA FILE=HCAPLUS ABB=ON PLU=ON L48 AND L42
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FILE 'MEDLINE' ENTERED AT 11:10:07 ON 21 MAR 2008

FILE LAST UPDATED: 20 Mar 2008 (20080320/UP). FILE COVERS 1949 TO DATE.

MEDLINE has been updated with the National Library of Medicine's revised 2008 MeSH terms. See HELP RLOAD for details.

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=> D QUE L68 L59 (1834) SEA FILE=HCAPLUS ABB=ON PLU=ON OKA H?/AU L60 (75)SEA FILE=HCAPLUS ABB=ON PLU=ON KOHASHI M?/AU 107) SEA FILE=HCAPLUS ABB=ON PLU=ON NAGAMOTO H?/AU L61 (2014) SEA FILE=HCAPLUS ABB=ON PLU=ON (L59 OR L60 OR L61) L62 (L63 (1) SEA FILE=REGISTRY ABB=ON PLU=ON "4-QUINOLINEPROPANOIC ACID, A-((4-CHLOROBENZOYL)AMINO)-1,2-DIHYDRO-2-OXO-"/CN SEL PLU=ON L63 1- NAME : 4 TERMS L64 194) SEA FILE=MEDLINE ABB=ON PLU=ON L64 L65 (L66 (194) SEA FILE=MEDLINE ABB=ON PLU=ON L63 OR L65 L67 (146) SEA FILE=MEDLINE ABB=ON PLU=ON L66 AND PY<=2004 0 SEA FILE=MEDLINE ABB=ON PLU=ON L62 AND L67 L68

=> FILE BIOSIS

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FILE COVERS 1926 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT FROM JANUARY 1926 TO DATE.

RECORDS LAST ADDED: 19 March 2008 (20080319/ED)

BIOSIS has been augmented with 1.8 million archival records from 1926 through 1968. These records have been re-indexed to match current BIOSIS indexing.

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=> D QUE L89
L81 ( 1834) SEA FILE=HCAPLUS ABB=ON PLU=ON OKA H?/AU
L82 (
          75) SEA FILE=HCAPLUS ABB=ON PLU=ON KOHASHI M?/AU
          107) SEA FILE=HCAPLUS ABB=ON PLU=ON NAGAMOTO H?/AU
L83 (
L84 (
        2014) SEA FILE=HCAPLUS ABB=ON PLU=ON (L81 OR L82 OR L83)
            1) SEA FILE=REGISTRY ABB=ON PLU=ON "4-QUINOLINEPROPANOIC ACID,
L85 (
               A-((4-CHLOROBENZOYL)AMINO)-1,2-DIHYDRO-2-OXO-"/CN
L86
               SEL PLU=ON L85 1- NAME : 4 TERMS
L87 (
         311) SEA FILE=BIOSIS ABB=ON PLU=ON L86
L88 (
          311) SEA FILE=BIOSIS ABB=ON PLU=ON L85 OR L87
            2 SEA FILE=BIOSIS ABB=ON PLU=ON L84 AND L88
L89
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=> FILE WPIX

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FILE LAST UPDATED: 18 MAR 2008 <20080318/UP>
MOST RECENT THOMSON SCIENTIFIC UPDATE: 200819 <200819/DW>
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> IPC Reform backfile reclassification has been loaded to the end of

November 2007. No update date (UP) has been created for the reclassified documents, but they can be identified by 20060101/UPIC and 20061231/UPIC, 20070601/UPIC, 20071001/UPIC and 20071130/UPIC. <<<

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- >>> HELP for European Patent Classifications see HELP ECLA, HELP ICO <<<
- >>> Updated PDF files in the following links:
 http://www.stn-international.de/stndatabases/details/ico_0801.zip
 http://www.stn-international.de/stndatabases/details/epc_0801.zip
 Supplement of all changed ECLA items:
- http://www.stn-international.de/stndatabases/details/ecla_0802s.zip <<<
 'BI,ABEX' IS DEFAULT SEARCH FIELD FOR 'WPIX' FILE</pre>

=> D QUE L105

L98 (1834) SEA FILE=HCAPLUS ABB=ON PLU=ON	N OKA H?/AU
L99 (75)SEA FILE=HCAPLUS ABB=ON PLU=ON	N KOHASHI M?/AU
L100(107)SEA FILE=HCAPLUS ABB=ON PLU=ON	N NAGAMOTO H?/AU
L101(2014) SEA FILE=HCAPLUS ABB=ON PLU=ON	N (L98 OR L99 OR L100)
L102(1)SEA FILE=REGISTRY ABB=ON PLU=	ON "4-QUINOLINEPROPANOIC ACID,
	A-((4-CHLOROBENZOYL)AMINO)-1,2	-DIHYDRO-2-OXO-"/CN
L103	SEL PLU=ON L102 1- NAME :	4 TERMS
L104(28) SEA FILE=WPIX ABB=ON PLU=ON 1	L103
L105	O SEA FILE=WPIX ABB=ON PLU=ON 1	L101 AND L104

=> FILE EMBASE

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=> D QUE L120
L112( 1834) SEA FILE=HCAPLUS ABB=ON PLU=ON OKA H?/AU
L113(
            75) SEA FILE=HCAPLUS ABB=ON PLU=ON KOHASHI M?/AU
          107) SEA FILE=HCAPLUS ABB=ON PLU=ON NAGAMOTO H?/AU
L114( 107)SEA FILE=HCAPLUS ABB=ON PLU=ON NAGAMOTO H?/AU
L115( 2014)SEA FILE=HCAPLUS ABB=ON PLU=ON (L112 OR L113 OR L114)
L116(
             1) SEA FILE=REGISTRY ABB=ON PLU=ON "4-QUINOLINEPROPANOIC ACID,
                A-((4-CHLOROBENZOYL)AMINO)-1,2-DIHYDRO-2-OXO-"/CN
L117
                SEL PLU=ON L116 1- NAME:
          323) SEA FILE=EMBASE ABB=ON PLU=ON L117
L118(
           323) SEA FILE=EMBASE ABB=ON PLU=ON L116 OR L118
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             2 SEA FILE=EMBASE ABB=ON PLU=ON L119 AND L115
L120
=> DUP REM L68 L89 L120 L105 L49
L68 HAS NO ANSWERS
L105 HAS NO ANSWERS
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PROCESSING COMPLETED FOR L105
PROCESSING COMPLETED FOR L49
L121
              5 DUP REM L68 L89 L120 L105 L49 (1 DUPLICATE REMOVED)
                ANSWERS '1-2' FROM FILE BIOSIS
                ANSWERS '3-4' FROM FILE EMBASE
                ANSWER '5' FROM FILE HCAPLUS
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L121 ANSWER 1 OF 5 BIOSIS COPYRIGHT (c) 2008 The Thomson Corporation on STN
     DUPLICATE 1
ACCESSION NUMBER: 2006:25546 BIOSIS Full-text
                   PREV200600019704
DOCUMENT NUMBER:
                    Rebamipide enema is effective for treatment of
TITLE:
                    experimental dextran sulfate sodium induced colitis in
                    rats.
AUTHOR(S):
                    Nakashima, Takako; Maeda, Takashi; Nagamoto,
                    Hisashi; Kumakura, Takeshi; Takai, Masaaki [Reprint
                    Author]; Mori, Toyoki
                   Otsuka Pharmaceut Co Ltd, DVM Res Inst Pharmacol and
CORPORATE SOURCE:
                    Therapeut Dev, 463-10 Kagasuno, Tokushima 7710192, Japan
                    m_takai@research.otsuka.co.jp
SOURCE:
                    Digestive Diseases and Sciences, (OCT 2005) Vol. 50, No.
                    Suppl. 1, pp. S124-S131.
                    CODEN: DDSCDJ. ISSN: 0163-2116.
DOCUMENT TYPE:
                    Article
LANGUAGE:
                    English
                    Entered STN: 21 Dec 2005
ENTRY DATE:
                    Last Updated on STN: 21 Dec 2005
ABSTRACT: We investigated therapeutic efficacy of rebamipide using
```

dextran sulfate sodium (DSS) induced colitis model in rats. Three percent DSS

solution was given to rats for 9 days. After that, we evaluated the drug efficacy on colitis sustained with continuous drinking of 1% DSS. Twice-daily treatment with 0.3% or 1% rebamipide for 14 days significantly ameliorated the stool abnormality in the colitis model, preferentially suppressed hematochezia. The colonic mucosal lesion, determined by Alcian blue staining on day 24, was significantly reduced by rebamipide enema in a dose-dependent manner. Either rebamipide or 5-ammosalycilic acid (5-ASA) enema treated once daily significantly ameliorated colitis. minimum effective dose of rebaminide was 0.3% in once-daily treatment, and that of 5-ASA was 10%. In a mechanistic study, the epithelial cell sheet formation of the T84 colon cancer cell was measured as an increase in generation of trans-epithelial electrical resistance in vitro. ***Rebamipide*** accelerated the increase, while 5-ASA conversely suppressed it. These results suggest that rebamipide enema is effective for treatment of experimental ulcerative colitis (UC). CONCEPT CODE: Cytology - Animal 02506 Cytology - Human 02508 Pathology - Therapy 12512 Digestive system - Physiology and biochemistry 14004 Digestive system - Pathology Pharmacology - General 22002 Pharmacology - Clinical pharmacology Pharmacology - Digestive system 22014 Toxicology - General and methods INDEX TERMS: Major Concepts Pharmacology; Digestive System (Ingestion and Assimilation) INDEX TERMS: Parts, Structures, & Systems of Organisms stool: digestive system INDEX TERMS: Diseases colitis: digestive system disease, drug therapy, chemically-induced Colitis (MeSH) Chemicals & Biochemicals INDEX TERMS: dextran sulfate sodium [DSS]; rebamipide: gastrointestinal-drug, gastric cytoprotectant-drug, efficacy, rectal administration; 5-aminosalycilic acid: gastrointestinal-drug, gastric cytoprotectant-drug, efficacy, rectal administration INDEX TERMS: Methods & Equipment Alcian blue staining: laboratory techniques ORGANISM: Classifier Hominidae 86215 Super Taxa Primates; Mammalia; Vertebrata; Chordata; Animalia Organism Name T84 cell line (cell_line): human colon cancer cells Taxa Notes Animals, Chordates, Humans, Mammals, Primates, Vertebrates ORGANISM: Classifier Muridae 86375 Super Taxa Rodentia; Mammalia; Vertebrata; Chordata; Animalia Organism Name Sprague-Dawley rat (common): male Taxa Notes Animals, Chordates, Mammals, Nonhuman Vertebrates,

Nonhuman Mammals, Rodents, Vertebrates

9011-18-1 (dextran sulfate sodium)

REGISTRY NUMBER:

9011-18-1 (DSS)

90098-04-7 (rebamipide)

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ACCESSION NUMBER: 1997:277853 BIOSIS Full-text

DOCUMENT NUMBER: PREV199799577056

TITLE: Increase in the rate of cure of Helicobacter pylori

infection by addition of rebamipide to omeprazole

plus amoxicillin.

AUTHOR(S): Nebiki, Hiroko; Arakawa, Tetsuo; Kioka, Kiyohide; So,

Kenji; Okawa, Kiyotaka; Oka, Hiroko; Yamada,

Hideaki; Harihara, Shigeyoshi; Ando, Kenji; Uchida, Toshiyuki; Ito, Hiroyuki; Higuchi, Kazuhide; Kobayashi,

Kenzo

CORPORATE SOURCE: Dep. Gastroenterology, Osaka City General Hosp., Osaka,

Japan

SOURCE: Gastroenterology, (1997) Vol. 112, No. 4 SUPPL., pp. A232.

Meeting Info.: Digestive Disease Week and the 97th Annual Meeting of the American Gastroenterological Association.

Washington, D.C., USA. May 11-14, 1997.

CODEN: GASTAB. ISSN: 0016-5085.

DOCUMENT TYPE: Conference; (Meeting)

Conference; Abstract; (Meeting Abstract)

LANGUAGE: English

ENTRY DATE: Entered STN: 3 Jul 1997

Last Updated on STN: 3 Jul 1997

CONCEPT CODE: General biology - Symposia, transactions and proceedings

00520

Biochemistry studies - General 10060

Pathology - Inflammation and inflammatory disease 12508

Pathology - Therapy 12512

Digestive system - Pathology 14006

Pharmacology - Clinical pharmacology 22005

Pharmacology - Digestive system 22014

Medical and clinical microbiology - Bacteriology 36002

Chemotherapy - Antibacterial agents 38504

INDEX TERMS: Major Concepts

Gastroenterology (Human Medicine, Medical Sciences);

Infection; Pharmacology

INDEX TERMS: Chemicals & Biochemicals

REBAMIPIDE; OMEPRAZOLE; AMOXICILLIN

INDEX TERMS: Miscellaneous Descriptors

AMOXICILLIN; ANTIBACTERIAL-DRUG; BACTERIAL DISEASE; COMBINATION THERAPY; CURE RATE; DIGESTIVE SYSTEM

DISEASE; DRUG TREATMENT; DUODENAL ULCER; GASTRIC ULCER;

GASTROENTEROLOGY; GASTROINTESTINAL-DRUG;

HELICOBACTER-PYLORI INFECTION; INFECTION; OMEPRAZOLE;

PATHOGEN; PATIENT; PHARMACOLOGY; REBAMIPIDE

ORGANISM: Classifier

Aerobic Helical or Vibrioid Gram-Negatives 06210

Super Taxa

Eubacteria; Bacteria; Microorganisms

Organism Name

aerobic helical or vibrioid gram-negative bacteria

Helicobacter pylori

Taxa Notes

Bacteria, Eubacteria, Microorganisms

ORGANISM: Classifier

issifier Hominidae 86215

Super Taxa

Primates; Mammalia; Vertebrata; Chordata; Animalia

Organism Name human Taxa Notes

Animals, Chordates, Humans, Mammals, Primates,

Vertebrates

REGISTRY NUMBER: 90098-04-7 (REBAMIPIDE)

> 73590-58-6 (OMEPRAZOLE) 26787-78-0 (AMOXICILLIN)

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ACCESSION NUMBER: 2008097696 EMBASE Full-text

Effective treatment with oral administration of TITLE:

rebamipide in a mouse model of Sjogren's syndrome.

AUTHOR: Kohashi M.; Ishimaru N.; Arakaki R.; Hayashi Y.

CORPORATE SOURCE: Dr. Y. Hayashi, Department of Oral Molecular Pathology,

Institute of Health Biosciences, University of Tokushima Graduate School, 3 Kuramoto-cho, Tokushima 770-8504, Japan.

hayashi@dent.tokushima-u.ac.jp

SOURCE: Arthritis and Rheumatism, (Feb 2008) Vol. 58, No. 2, pp.

> 389-400. Refs: 48

ISSN: 0004-3591 CODEN: ARHEAW

United States COUNTRY: DOCUMENT TYPE: Journal; Article

FILE SEGMENT: 026 Immunology, Serology and Transplantation

> Clinical and Experimental Pharmacology 030

Arthritis and Rheumatism 031 037 Drug Literature Index

English LANGUAGE: SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 18 Mar 2008

Last Updated on STN: 18 Mar 2008

Objective. To determine whether oral administration of ABSTRACT: ***rebamipide*** , a mucosal protective agent, is effective in the treatment of Sjogren's syndrome (SS) in the NFS/sld mouse model of the disease. Methods. NFS/sld mice were given daily oral doses of rebamipide (0.3 mg/kg of body weight or 3 mg/kg) or vehicle alone starting from the age of 4 weeks to the age of 8 weeks. The volume of saliva and tears was monitored during and after treatment. After the final dose, histologic features of the tissues, TUNEL+ apoptotic duct cells in affected glands, T cell and cytokine function, and levels of immunoglobulin isotypes and serum autoantibodies were examined. Results. The 3-mg/kg dose of rebamipide prevented the development of autoimmune lesions. The average volume of saliva in rebamipide -treated mice was significantly higher than that in control mice. We found decreased TUNEL+ apoptotic duct cells in the salivary and lacrimal glands of ***rebamipide*** -treated mice as compared with control mice. ***Rebamipide*** treatment suppressed the activation of CD4+ T cells and Th1

cytokines (interleukin-2, interferon-γ) associated with impaired

 $NF-\kappa B$ activity. Production of serum autoantibodies, IgM, and IgG1 was clearly inhibited. Conclusion. Our findings demonstrate the efficacy of oral administration of rebamipide in the treatment of SS.

Rebamipide represents a new therapeutic strategy for the treatment of patients with sicca symptoms caused by SS, as well as for patients with other diseases. .COPYRGT. 2008, American College of Rheumatology.

CONTROLLED TERM: Medical Descriptors:

animal cell

animal experiment

animal model
animal tissue

antibody production

apoptosis article

CD4+ T lymphocyte
controlled study
drug dose comparison

drug effect
drug mechanism

female
histology
lacrimal gland
lacrimation

mouse

nick end labeling

nonhuman

priority journal
saliva analysis
salivary gland

*Sjoegren syndrome: DT, drug therapy

T lymphocyte

T lymphocyte activation

treatment duration

volumetry

CONTROLLED TERM: Drug Descriptors:

autoantibody: EC, endogenous compound gamma interferon: EC, endogenous compound

immunoglobulin enhancer binding protein: EC, endogenous

compound

immunoglobulin G1 antibody: EC, endogenous compound immunoglobulin M antibody: EC, endogenous compound

interleukin 2: EC, endogenous compound

placebo

*rebamipide: DO, drug dose *rebamipide: DT, drug therapy

*rebamipide: PO, oral drug administration

*rebamipide: PD, pharmacology

CAS REGISTRY NO.: (gamma interferon) 82115-62-6; (interleukin 2) 85898-30-2;

(rebamipide) 111911-87-6

COMPANY NAME: Otsuka (Japan)

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ACCESSION NUMBER: 2005438755 EMBASE Full-text

TITLE: Rebamipide enema is effective for treatment of

experimental dextran sulfate sodium induced colitis in

rats.

AUTHOR: Nakashima T.; Maeda T.; Nagamoto H.; Kumakura T.;

Takai M.; Mori T.

CORPORATE SOURCE: Dr. M. Takai, Research Institute of Pharmacological and

Therapeutical Development, Otsuka Pharmaceutical Co. Ltd., 463-10 Kagasuno, Kawauchi-cho, Tokushima 771-0192, Japan.

m_takai@research.otsuka.co.jp

SOURCE: Digestive Diseases and Sciences, (Oct 2005) Vol. 50, No.

SUPPL. 1, pp. S124-S131.

Refs: 35

ISSN: 0163-2116 CODEN: DDSCDJ

COUNTRY: United States
DOCUMENT TYPE: Journal; Article

FILE SEGMENT: 030 Clinical and Experimental Pharmacology

037 Drug Literature Index

048 Gastroenterology

LANGUAGE: English SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 27 Oct 2005

Last Updated on STN: 27 Oct 2005

ABSTRACT: We investigated therapeutic efficacy of rebamipide using dextran sulfate sodium (DSS) induced colitis model in rats. Three percent DSS solution was given to rats for 9 days. After that, we evaluated the drug efficacy on colitis sustained with continuous drinking of 1% DSS. Twice-daily treatment with 0.3% or 1% rebamipide for 14 days significantly ameliorated the stool abnormality in the colitis model, preferentially suppressed hematochezia. The colonic mucosal lesion, determined by Alcian blue staining on day 24, was significantly reduced by rebamipide enema in a dose-dependent manner. Either rebamipide or 5-aminosalycilic acid (5-ASA) enema treated once daily significantly ameliorated colitis. The minimum effective dose of rebamipide was 0.3% in once-daily treatment, and that of 5-ASA was 10%. In a mechanistic study, the epithelial cell sheet formation of the T84 colon cancer cell was measured as an increase in generation of trans-epithelial electrical resistance in vitro.

Rebamipide accelerated the increase, while 5-ASA conversely suppressed

CONTROLLED TERM: Medical Descriptors:

Science+Business Media, Inc.

animal experiment

animal model animal tissue

article
cancer cell

cell membrane resistance

it. These results suggest that rebamipide enema is effective for

treatment of experimental ulcerative colitis (UC). .COPYRGT. 2005 Springer

colon cancer
colon injury
colon mucosa
controlled study
dose response
drug effect
drug efficacy
drug mechanism
electric resistance
experimental model
feces analysis
hematochezia

human
human cell
male

nonhuman

priority journal

rat
staining

treatment outcome

*ulcerative colitis: DT, drug therapy

CONTROLLED TERM: Drug Descriptors: dextran sulfate

*enema: DT, drug therapy

*enema: RC, rectal drug administration

mesalazine: CM, drug comparison

mesalazine: DO, drug dose

mesalazine: DT, drug therapy mesalazine: PD, pharmacology

mesalazine: RC, rectal drug administration

*rebamipide: CM, drug comparison *rebamipide: DO, drug dose *rebamipide: DT, drug therapy *rebamipide: PD, pharmacology

*rebamipide: RC, rectal drug administration

CAS REGISTRY NO.: (dextran sulfate) 9011-18-1, 9042-14-2; (mesalazine)

89-57-6; (rebamipide) 111911-87-6

COMPANY NAME: cambrex karlskoga (Sweden); Otsuka (Japan)

L121 ANSWER 5 OF 5 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:120780 HCAPLUS Full-text

DOCUMENT NUMBER: 142:183519

TITLE: Carbostyril derivatives for accelerating salivation

INVENTOR(S): Nagamoto, Hisashi, Kohashi, Masayuki

; Oka, Hiroshi

PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan; St. Marianna

University School of Medicine

SOURCE: PCT Int. Appl., 36 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.					KIN	D	DATE			APPL	ICAT	ION I	NO.		DATE			
WO	2005	0118	11		A1		2005	0210		WO 2	004-	JP99	92		2	0040	707	
	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,	
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FΙ,	GB,	GD,	
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	KE,	KG,	KP,	KR,	KΖ,	LC,	
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NΙ,	
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	
		ΤJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW	
	RW:	BW,	GH,	GM,	ΚE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	
		ΑZ,	BY,	KG,	KΖ,	MD,	RU,	ΤJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	
		EE,	ES,	FΙ,	FR,	GB,	GR,	HU,	IE,	ΙΤ,	LU,	MC,	NL,	PL,	PT,	RO,	SE,	
		SI,	SK,	TR,	BF,	ВJ,	CF,	CG,	CI,	CM,	GA,	GN,	GQ,	GW,	ML,	MR,	NE,	
		SN,	TD,	ΤG														
EP	1648	563			A1		2006	0426		EP 2	004-	7474	58		2	0040	707	
EP	1648	563			В1		2007	0919										
	R:	ΑT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙΤ,	LI,	LU,	NL,	SE,	MC,	PT,	
		IE,	SI,	FI,	RO,	CY,	TR,	BG,	CZ,	EE,	HU,	PL,	SK					
CN	1859	948			Α		2006	1108		CN 2	004-	8002	7975		2	0040	707	
JP	2006	5286					2006	1221		JP 2	006-	5217	75		2	0040	707	
AT	3735	02			T		2007	1015		AT 2	004-	7474	58		2	0040	707	
US	2007	1120	26		A1		2007	0517		US 2	006-	5662	14		2	0060	127	
ORIT	Y APP	LN.	INFO	.:						JP 2	2003-	2826	91		A 2	0030	730	
									JP 2	004-	2180	8		A 2	0040	129		
										WO 2	004-	JP99	92	,	W 2	0040	707	
ED CC		(0).			MADI	ח א ידי	1 40.	1005	10									

OTHER SOURCE(S): MARPAT 142:183519

ED Entered STN: 11 Feb 2005

AB An oral pharmaceutical composition for accelerating salivation and prophylaxis and/or treatment of xerostomia or hyposalivation comprises as an active ingredient a carbostyril compound or a pharmaceutically acceptable salt

thereof. For example, a mixture containing 2-(4-chlorobenzoylamino)-3-(2-quinolon-4-yl) propionic acid (Rebamipide) 150 g, Avicel 40 g, corn starch 30 g, and magnesium stearate 2 g was tableted and film coated with a composition containing hydroxypropyl Me cellulose 10 g, polyethylene glycol 6000 3 g, castor oil 40 g, and methanol 40 g. Tablets containing 100 mg Rebamipide per tablet were orally administered three times per day immediately after a meal to patients having Sjogren's syndrome. An increase of salivation was observed with the effectiveness of 52.4% after 4 wk and 61.9% after 8 wk of administration.

- IT 90098-04-7, Rebamipide
 - RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)
 - (oral carbostyril derivs. for accelerating salivation)
- RN 90098-04-7 HCAPLUS
- CN 4-Quinolinepropanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)

REFERENCE COUNT:

3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

Text and Structure Search

☎∄① FILE HCAPLUS

FILE 'HCAPLUS' ENTERED AT 11:11:23 ON 21 MAR 2008
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FILE COVERS 1907 - 21 Mar 2008 VOL 148 ISS 13 FILE LAST UPDATED: 20 Mar 2008 (20080320/ED)

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'OBI' IS DEFAULT SEARCH FIELD FOR 'HCAPLUS' FILE

=> D OUE L31

L13 (1) SEA FILE=REGISTRY ABB=ON PLU=ON "4-QUINOLINEPROPANOIC ACID, A-((4-CHLOROBENZOYL)AMINO)-1,2-DIHYDRO-2-OXO-"/CN

L14 STR

Structure attributes must be viewed using STN Express query preparation.

L15 (77) SEA FILE=REGISTRY SSS FUL L14

L16 (302) SEA FILE=HCAPLUS ABB=ON PLU=ON L13 L17 (312) SEA FILE=HCAPLUS ABB=ON PLU=ON L15

L18 (242) SEA FILE=HCAPLUS ABB=ON PLU=ON L16 AND (PRY<=2004 OR

AY <= 2004 OR PY <= 2004)

L19 (337) SEA FILE=HCAPLUS ABB=ON PLU=ON MOUTH, DISEASE+NT/CT(L) XEROSTO

MIA/OBI

L20 (2889) SEA FILE=HCAPLUS ABB=ON PLU=ON SJOGREN SYNDROME+OLD/CT

```
L21 ( 17437) SEA FILE=HCAPLUS ABB=ON PLU=ON SALIVA/CT
L22 (
              76) SEA FILE=HCAPLUS ABB=ON PLU=ON L19 AND L21
L23 (
              53) SEA FILE=HCAPLUS ABB=ON PLU=ON L22 AND (PRY<=2004 OR
                 AY <= 2004 OR PY <= 2004)
               1) SEA FILE=HCAPLUS ABB=ON PLU=ON L18 AND L23
L24 (
               1)SEA FILE=HCAPLUS ABB=ON PLU=ON L18 AND L19
L25 (
L26 (
              1) SEA FILE=HCAPLUS ABB=ON PLU=ON L18 AND L20
          1)SEA FILE=HCAPLUS ABB=ON PLU=ON L17 AND L19
1)SEA FILE=HCAPLUS ABB=ON PLU=ON L17 AND L20
L27 (
L28 (
L29 ( 17437) SEA FILE=HCAPLUS ABB=ON PLU=ON SALIVA/CT
L30 (
           1)SEA FILE=HCAPLUS ABB=ON PLU=ON (L16 OR L17) AND L29
                1 SEA FILE=HCAPLUS ABB=ON PLU=ON (L25 OR L26 OR L27 OR L28 OR
L31
                  L30 OR L24)
   ☎ ⊕ ① D OUE L38
L32 ( 1834) SEA FILE=HCAPLUS ABB=ON PLU=ON OKA H?/AU
Loo ( /5)SEA FILE=HCAPLUS ABB=ON PLU=ON KOHASHI M?/AU
L34 ( 107)SEA FILE=HCAPLUS ABB=ON PLU=ON NAGAMOTO H?/AU
L35 ( 2014)SEA FILE=HCAPLUS ABB=ON PLU=ON (L32 OR L33 OR L34)
L36 ( 1)SEA FILE=REGISTRY ABR=ON PLU=ON (44 OWNERS)
              1) SEA FILE=REGISTRY ABB=ON PLU=ON "4-QUINOLINEPROPANOIC ACID,
                  A-((4-CHLOROBENZOYL)AMINO)-1,2-DIHYDRO-2-OXO-"/CN
L37 (
            302) SEA FILE=HCAPLUS ABB=ON PLU=ON L36
L38
               2 SEA FILE=HCAPLUS ABB=ON PLU=ON L35 AND L37
=> S L38,L31 NOT L49
L122
              0 (L38 OR L31) NOT L49
```

☎∰① FILE MEDLINE

FILE 'MEDLINE' ENTERED AT 11:11:53 ON 21 MAR 2008

FILE LAST UPDATED: 20 Mar 2008 (20080320/UP). FILE COVERS 1949 TO DATE.

MEDLINE has been updated with the National Library of Medicine's revised 2008 MeSH terms. See HELP RLOAD for details.

This file contains CAS Registry Numbers for easy and accurate substance identification.

```
=> D OUE L58
             1) SEA FILE=REGISTRY ABB=ON PLU=ON "4-QUINOLINEPROPANOIC ACID,
L50 (
               A-((4-CHLOROBENZOYL)AMINO)-1,2-DIHYDRO-2-OXO-"/CN
L51
               SEL PLU=ON L50 1- NAME : 4 TERMS
L52 (
         194)SEA FILE=MEDLINE ABB=ON PLU=ON L51
L53 (
          194)SEA FILE=MEDLINE ABB=ON PLU=ON L50 OR L52
         10384) SEA FILE=MEDLINE ABB=ON PLU=ON XEROSTOMIA+NT/CT
L54 (
            0)SEA FILE=MEDLINE ABB=ON PLU=ON L53 AND L54
L55 (
L56 (
          2398) SEA FILE=MEDLINE ABB=ON PLU=ON DRY? (A) MOUTH OR DECREASE (A) SAL
              TV?
L57 (
            0) SEA FILE=MEDLINE ABB=ON PLU=ON L53 AND L56
L58
            O SEA FILE=MEDLINE ABB=ON PLU=ON (L55 OR L57)
```

THE BIOSIS

FILE 'BIOSIS' ENTERED AT 11:12:06 ON 21 MAR 2008 Copyright © 2008 The Thomson Corporation

FILE COVERS 1926 TO DATE.

CAS REGISTRY NUMBERS AND CHEMICAL NAMES (CNs) PRESENT FROM JANUARY 1926 TO DATE.

RECORDS LAST ADDED: 19 March 2008 (20080319/ED)

BIOSIS has been augmented with 1.8 million archival records from 1926 through 1968. These records have been re-indexed to match current BIOSIS indexing.

=> D QUE L74 1) SEA FILE=REGISTRY ABB=ON PLU=ON "4-QUINOLINEPROPANOIC ACID, L69 (A-((4-CHLOROBENZOYL)AMINO)-1,2-DIHYDRO-2-OXO-"/CN SEL PLU=ON L69 1- NAME : L70 4 TERMS 311)SEA FILE=BIOSIS ABB=ON PLU=ON L70 L71 (L72 (311) SEA FILE=BIOSIS ABB=ON PLU=ON L69 OR L71 L73 (65571) SEA FILE-BIOSIS ABB-ON PLU-ON XEROSTOMIA OR ASIALIA OR HYPOSALIV? OR SALIV? OR MOUTH DRYNESS OR DRY MOUTH OR HYPO SALIV? L74 1 SEA FILE=BIOSIS ABB=ON PLU=ON L72 AND L73

=> D QUE L80

L75 (1) SEA FILE=REGISTRY ABB=ON PLU=ON "4-QUINOLINEPROPANOIC ACID, A-((4-CHLOROBENZOYL)AMINO)-1,2-DIHYDRO-2-OXO-"/CN L76 SEL PLU=ON L75 1- NAME: 4 TERMS 311) SEA FILE=BIOSIS ABB=ON PLU=ON L76 L77 (L78 (311) SEA FILE=BIOSIS ABB=ON PLU=ON L75 OR L77 8804) SEA FILE=WPIX ABB=ON PLU=ON XEROSTOMIA/BI, ABEX OR ASIALIA/BI, L79 (ABEX OR HYPOSALIV?/BI,ABEX OR SALIV?/BI,ABEX OR MOUTH/BI,ABEX (A) DRY#####/BI, ABEX OR HYPO SALIV?/BI, ABEX L80 1 SEA FILE=BIOSIS ABB=ON PLU=ON L79 AND L78

TO FILE WPIX

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FILE LAST UPDATED: 18 MAR 2008 <20080318/UP>
MOST RECENT THOMSON SCIENTIFIC UPDATE: 200819 <200819/DW>
DERWENT WORLD PATENTS INDEX SUBSCRIBER FILE, COVERS 1963 TO DATE

>>> IPC Reform backfile reclassification has been loaded to the end of
November 2007. No update date (UP) has been created for the
reclassified documents, but they can be identified by
20060101/UPIC and 20061231/UPIC, 20070601/UPIC, 20071001/UPIC and
20071130/UPIC. <<</pre>

FOR A COPY OF THE DERWENT WORLD PATENTS INDEX STN USER GUIDE, PLEASE VISIT:

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FOR DETAILS OF THE PATENTS COVERED IN CURRENT UPDATES, SEE http://scientific.thomson.com/support/patents/coverage/latestupdates/

EXPLORE DERWENT WORLD PATENTS INDEX IN STN ANAVIST, VERSION 2.0: http://www.stn-international.com/archive/presentations/DWPIAnaVist2_0710.pdf

- >>> XML document distribution format now available See HELP XMLDOC <<<
- >>> ECLA Codes and Current US National Classifications have been added see NEWS and HELP CHANGE <<<
- >>> HELP for European Patent Classifications see HELP ECLA, HELP ICO <<<
- >>> Updated PDF files in the following links:
 http://www.stn-international.de/stndatabases/details/ico_0801.zip
 http://www.stn-international.de/stndatabases/details/epc_0801.zip
 Supplement of all changed ECLA items:
- http://www.stn-international.de/stndatabases/details/ecla_0802s.zip <<<
 'BI,ABEX' IS DEFAULT SEARCH FIELD FOR 'WPIX' FILE</pre>

=> D QUE	L97
L90 (1)SEA FILE=REGISTRY ABB=ON PLU=ON "4-QUINOLINEPROPANOIC ACID,
	A-((4-CHLOROBENZOYL)AMINO)-1,2-DIHYDRO-2-OXO-"/CN
L91	SEL PLU=ON L90 1- NAME : 4 TERMS
L92 (28)SEA FILE=WPIX ABB=ON PLU=ON L91
L93 (8795)SEA FILE=WPIX ABB=ON PLU=ON XEROSTOMIA/BI,ABEX OR ASIALIA/BI,
	ABEX OR HYPOSALIV?/BI,ABEX OR SALIV?/BI,ABEX OR MOUTH DRYNESS/B
	I,ABEX OR DRY MOUTH/BI,ABEX OR HYPO SALIV?/BI,ABEX
L94 (0)SEA FILE=WPIX ABB=ON PLU=ON L92 AND L93
L95 (8804)SEA FILE=WPIX ABB=ON PLU=ON XEROSTOMIA/BI,ABEX OR ASIALIA/BI,
	ABEX OR HYPOSALIV?/BI,ABEX OR SALIV?/BI,ABEX OR MOUTH/BI,ABEX
	(A)DRY#####/BI,ABEX OR HYPO SALIV?/BI,ABEX
L96 (0)SEA FILE=WPIX ABB=ON PLU=ON L92 AND L95
L97	O SEA FILE=WPIX ABB=ON PLU=ON (L94 OR L96)

FILE EMBASE

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=> S L111 NOT L120

L124 1 L111 NOT L120

☎ DUP REM L122 L123 L124

L122 HAS NO ANSWERS

FILE 'BIOSIS' ENTERED AT 11:13:11 ON 21 MAR 2008

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PROCESSING COMPLETED FOR L122 PROCESSING COMPLETED FOR L123 PROCESSING COMPLETED FOR L124

L125 2 DUP REM L122 L123 L124 (0 DUPLICATES REMOVED)

ANSWER '1' FROM FILE BIOSIS ANSWER '2' FROM FILE EMBASE

☎ ∄ ① D IALL 1-2

L125 ANSWER 1 OF 2 BIOSIS COPYRIGHT © 2008 The Thomson Corporation on STN

ACCESSION NUMBER: 2008:188708 BIOSIS Full-text

DOCUMENT NUMBER: PREV200800191828

TITLE: Rebamipide improves salivary gland

function and saliva transit to the distal

esophagus.

AUTHOR(S): Urita, Yoshihisa [Reprint Author]; Watanabe, Toshiyasu;

Maeda, Tadashi; Domon, Kaoru; Ishihara, Susumu; Arita, Tomohiro; Nakayama, Asuka; Nanami, Makie; Yamanoto, Tatsuhiro; Kugahara, Akiro; Ishii, Takanasa; Kato, Hirohito; Hike, Kazuo; Hara, Noriko; Honda, Yoshiko; Watanabe, Shuji; Nakanishi, Kazushige; Shimada, Nagato;

Sugimoto, Motonobu; Miki, Kazumasa

CORPORATE SOURCE: Toho Univ, Dept Gen Med and Emergency Care, Tokyo, Japan

SOURCE: American Journal of Gastroenterology, (SEP 2007) Vol. 102,

No. Suppl. 2, pp. S135.

Meeting Info.: 72nd Annual Scientific Meeting of the American-College-of-Gastroenterology. Philadelphia, PA, USA. October 12 -17, 2007. Amer Coll Gastroenterol.

CODEN: AJGAAR. ISSN: 0002-9270.

DOCUMENT TYPE: Conference; (Meeting)

Conference; Abstract; (Meeting Abstract)

LANGUAGE: English

ENTRY DATE: Entered STN: 19 Mar 2008

Last Updated on STN: 19 Mar 2008

CONCEPT CODE: General biology - Symposia, transactions and proceedings

00520

Pathology - Therapy 12512

Digestive system - Physiology and biochemistry 14004

Digestive system - Pathology 14006

Dental biology - Physiology and biochemistry 19004

Dental biology - Pathology 19006 Pharmacology - General 22002

Pharmacology - Drug metabolism and metabolic stimulators

22003

Pharmacology - Clinical pharmacology 22005

Pharmacology - Digestive system 22014

INDEX TERMS: Major Concepts

Pharmacology; Methods and Techniques; Dental Medicine

(Human Medicine, Medical Sciences); Gastroenterology

(Human Medicine, Medical Sciences)

INDEX TERMS: Parts, Structures, & Systems of Organisms

saliva: dental and oral system; esophagus:
digestive system; salivary gland: dental and

oral system; parotid gland: dental and oral system; submandibular gland: dental and oral system; pharynx:

dental and oral system

INDEX TERMS: Diseases

gastroesophageal reflux disease: digestive system

disease, drug therapy

Gastroesophageal Reflux (MeSH)

INDEX TERMS: Chemicals & Biochemicals

rebamipide: gastrointestinal-drug;

99mTc-pertechnetate: gastrointestinal-drug, intravenous

administration; radionuclide: metabolic-drug, oral

 ${\tt administration}$

INDEX TERMS: Methods & Equipment

scintigraphy: laboratory techniques, diagnostic

techniques, clinical techniques, imaging and microscopy

techniques

ORGANISM: Classifier

Hominidae 86215

Super Taxa

Primates; Mammalia; Vertebrata; Chordata; Animalia

Organism Name human (common)

Taxa Notes

Animals, Chordates, Humans, Mammals, Primates,

Vertebrates

REGISTRY NUMBER: 90098-04-7 (rebamipide)

L125 ANSWER 2 OF 2 EMBASE COPYRIGHT @ 2008 Elsevier B.V. All rights

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ACCESSION NUMBER: 2008073013 EMBASE <u>Full-text</u>

TITLE: Pharmacological management of dry eye in the elderly

patient.

AUTHOR: Foulks G.N.

CORPORATE SOURCE: Dr. Prof. G.N. Foulks, 301 E. Muhammad Ali Boulevard,

Louisville, KY 40202, United States

SOURCE: Drugs and Aging, (2008) Vol. 25, No. 2, pp. 105-118.

Refs: 98

ISSN: 1170-229X CODEN: DRAGE6

COUNTRY: New Zealand

DOCUMENT TYPE: Journal; General Review; (Review)

FILE SEGMENT: 012 Ophthalmology

017 Public Health, Social Medicine and Epidemiology

020 Gerontology and Geriatrics 037 Drug Literature Index 038 Adverse Reactions Titles

LANGUAGE: English SUMMARY LANGUAGE: English

ENTRY DATE: Entered STN: 6 Mar 2008

Last Updated on STN: 6 Mar 2008

ABSTRACT: Dry eye disease is a common and increasingly prevalent condition particularly associated with advancing age and postmenopausal women. Epidemiological studies identify prevalence rates ranging from 7% in the US to 33% in the Asian population. Research increasingly identifies risk factors of increasing age, female sex, smoking, use of video display terminals and use of certain medications as well as environmental stresses as aggravating factors

for the disease. Basic and clinical investigations provide cumulative evidence

of hyperosmolarity of the tear film and ocular surface/lacrimal gland

inflammation as pathogenic features of dry eye disease. A decline in systemic and local levels of sex hormones is associated with advancing age and advancing disease. Pharmacological therapeutic interventions include enhanced lubricants and anti-inflammatory drugs such as topical corticosteroids and ciclosporin (cyclosporine A). Secretagogues and hormonal supplementation are potential future therapies. The increased understanding of the contributing and pathogenetic factors responsible for dry eye provides a rationale for multiple therapeutic options for this multi-factorial disease. In the elderly patient it is important to recognize the physical and cognitive limitations that will influence the selection of appropriate topical medication. .COPYRGT. 2008 Adis Data Information BV. All rights reserved.

```
CONTROLLED TERM:
                    Medical Descriptors:
                    Asian
                    cataract: SI, side effect
                    clinical trial
                    cognition
                    *dry eye: DT, drug therapy
                    *dry eye: EP, epidemiology
                    elderly care
                    emulsion
                    environmental exposure
                    fluorescence
                    Hispanic
                    hormone substitution
                    human
                    inflammation
                    intraocular pressure
                    lubrication
                    multifactorial genetic disorder
                    nonhuman
                    osmolarity
                    prevalence
                    priority journal
                    review
                    risk factor
                    sex difference
                    side effect: SI, side effect
                    social behavior
                    staining
                    tear film
                      xerostomia: DT, drug therapy
CONTROLLED TERM:
                    Drug Descriptors:
                    12 sulfodehydroabietic acid: CT, clinical trial
                    artificial tear: IT, drug interaction
                    artificial tear: DT, drug therapy
                    cevimeline: CT, clinical trial
                    cevimeline: CM, drug comparison
                    cevimeline: DT, drug therapy
                    corticosteroid: AE, adverse drug reaction
                    corticosteroid: DT, drug therapy
                    corticosteroid: PD, pharmacology
                    corticosteroid: TP, topical drug administration
                    _ndure_orine A: CT, clinical trial
                    _ndure_orine A: IT, drug interaction
                    _ndure_orine A: DT, drug therapy
                    _ndure_orine A: TP, topical drug administration
                    diquafosol: CT, clinical trial
                    diquafosol: DT, drug therapy
                    diquafosol: PD, pharmacology
```

```
diquafosol: TP, topical drug administration
                    duramycin: CT, clinical trial
                    estratest: CT, clinical trial
                    estratest: DT, drug therapy
                    estratest: TP, topical drug administration
                    freshkote
                    loteprednol etabonate: CT, clinical trial
                    loteprednol etabonate: DT, drug therapy
                    omega 3 fatty acid: DT, drug therapy
                    pilocarpine: CM, drug comparison
                    pilocarpine: DT, drug therapy
                      rebamipide: CT, clinical trial
                      rebamipide: DT, drug therapy
                      rebamipide: TP, topical drug administration
                    refresh _ndure
                    restoryl
                    soothe
                    systane
CAS REGISTRY NO.:
                    (12 sulfodehydroabietic acid) 33159-27-2, 86408-72-2;
                    (cevimeline) 107220-27-9, 107220-28-0, 107233-08-9,
                    153504-70-2; (_ndure_orine A) 59865-13-3, 63798-73-2;
                    (diquafosol) 211427-08-6; (duramycin) 1391-36-2;
                    (loteprednol etabonate) 82034-46-6; (pilocarpine) 148-72-1,
                    54-71-7, 92-13-7; (rebamipide)
                    111911-87-6
                    (1) estratest; (2) evoxac; (3) freshkote; (4) moli 1901;
CHEMICAL NAME:
                    (5) refresh _ndure; (6) restasis; (7) restoryl; (8)
                    salagen; (9) soothe; (10) systane
COMPANY NAME:
                    (1) Solvay (United States); (2) Daiichi Seiyaku (United
                    States); (3) Focus (United States); (4) lantibio (United
                    States); (5) Allergen (United States); (6) Allergen (United
                    States); (7) Bausch and Lomb (United States); (8) MGI
                    (United States); (9) Bausch and Lomb (United States); (10)
                    Alcon (United States); Inspire (United States); ISTA
                    (United States); Otsuka (United States)
```

Structure Search

=> FILE HCAPLUS

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=> D QUE L8 L1 STR

Structure attributes must be viewed using STN Express query preparation: Uploading $\operatorname{strB.str}$

chain nodes : 7 8 9 10 11 12 13 14 25 ring nodes : 1 2 3 4 5 6 15 16 17 18 19 20 21 22 23 24 chain bonds : 5-7 7-8 7-9 9-10 10-11 10-14 11-12 11-13 14-15 19-25ring bonds : $1-2 \quad 1-6 \quad 2-3 \quad 3-4 \quad 4-5 \quad 5-6 \quad 15-16 \quad 15-20 \quad 16-17 \quad 16-21 \quad 17-18 \quad 17-24 \quad 18-19 \quad 19-19-19 \quad 19-19 \quad 19-19-19 \quad 19-19-19 \quad 19-19-19 \quad 19-19-19 \quad 19-19-19 \quad 19-19 \quad 19-19-19 \quad 19-19-19 \quad 19-19-19 \quad 19-19-19 \quad 19-19 \quad 1$ 20 21-22 22-23 23-24 exact/norm bonds : $1-2 \quad 1-6 \quad 2-3 \quad 3-4 \quad 4-5 \quad 5-6 \quad 7-8 \quad 7-9 \quad 9-10 \quad 15-16 \quad 15-20 \quad 17-18 \quad 18-19 \quad 19-20$ 19 - 25exact bonds : 5-7 10-11 10-14 14-15 normalized bonds : 11-12 11-13 16-17 16-21 17-24 21-22 22-23 23-24

Match level:

T.4

1:Atom 2:Atom 3:Atom 4:Atom 5:Atom 6:Atom 7:CLASS 8:CLASS 9:CLASS 10:CLASS 11:CLASS 12:CLASS 13:CLASS 14:CLASS 15:Atom 16:Atom 17:Atom 18:Atom 19:Atom 20:Atom 21:Atom 23:Atom 24:Atom 25:CLASS

L3 49 SEA FILE=REGISTRY SSS FUL L1

STR

* STRUCTURE DIAGRAM TOO LARGE FOR DISPLAY - AVAILABLE VIA OFFLINE PRINT *

Structure attributes must be viewed using STN Express query preparation: Uploading $\operatorname{strC.str}$

Element Count : Node 21: Limited C,C9 N,N1

40 SEA FILE=REGISTRY SUB=L3 SSS FUL L4 L6 305 SEA FILE=HCAPLUS ABB=ON PLU=ON L6 L7 245 SEA FILE=HCAPLUS ABB=ON PLU=ON L7 AND (PRY<=2004 OR AY<=2004 1.8

OR PY <= 2004)

=> S L8 NOT L49, L31, L38

244 L8 NOT (L49 OR L31 OR L38)

=> D IBIB ED ABS HITSTR 1-10; D IBIB ED ABS HITSTR 122-132; D IBIB ED ABS HITSTR

L126 ANSWER 1 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2006:1228621 HCAPLUS Full-text DOCUMENT NUMBER: 146:13166

TITLE: Compositions and methods of treatment for inflammatory

diseases

INVENTOR(S): Harty, Richard F.

PATENT ASSIGNEE(S): USA

SOURCE: U.S. Pat. Appl. Publ., 18pp., Cont.-in-part of U.S.

> Ser. No. 23,812. CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
US 2006264409	A1	20061123	US 2006-397024	20060403 <
US 2005159396	A1	20050721	US 2004-23812	20041228 <
AU 2004314731	A1	20050811	AU 2004-314731	20041228 <
CA 2553775	A1	20050811	CA 2004-2553775	20041228 <
EP 1722630	A2	20061122	EP 2004-815911	20041228 <
, , ,	•		PK, EE, ES, FI, FR, G PL, PT, RO, SE, SI, S	
IN 2006DN04763	A	20070831	IN 2006-DN4763	20060818 <
PRIORITY APPLN. INFO.:			US 2004-537766P	P 20040120 <
			US 2004-23812	A2 20041228 <
			WO 2004-US43921	W 20041228 <

Entered STN: 24 Nov 2006

AΒ Inflammatory bowel diseases are represented by two idiopathic disorders, which include ulcerative colitis and Crohn's disease. Ulcerative colitis is restricted to the colon and involves uncertain and inflammation of the lining (mucosa) of the large intestine. Crohn's disease, on the other hand, can involve the mucosa of the small and/or large intestine and may involve deeper layers of the bowel wall. The present invention in a preferred embodiment is a combination of 5-aminosalicylic acid or 4-aminosalicylic acid and one or more antioxidants (e.g., N-acetylcysteine) for treating such inflammatory bowel diseases. A combination of 5-aminosalicylic acid and N-acetylcysteine

acted synergistically to cause a significant reduction in macroscopic injury in rats with induced colitis.

IT 90098-04-7, Rebamipide

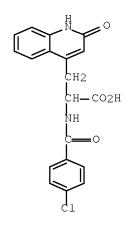
RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL

(Biological study); USES (Uses)

(compns. and methods of treatment for inflammatory diseases)

RN 90098-04-7 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)



L126 ANSWER 2 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2006:807840 HCAPLUS Full-text

DOCUMENT NUMBER: 145:271648

TITLE: Rebamipide lysinate and rebamipide argininate and

pharmaceutical preparation containing the same as

active substance

INVENTOR(S): Kim, Uk; Noh, Jae Il

PATENT ASSIGNEE(S): Jin Yang Pharm. Co., Ltd., S. Korea

SOURCE: Repub. Korean Kongkae Taeho Kongbo, No pp. given

CODEN: KRXXA7

DOCUMENT TYPE: Patent LANGUAGE: Korean

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
KR 2004104020	A	20041210	KR 2003-35382	20030602 <
PRIORITY APPLN. INFO.:			KR 2003-35382	20030602 <

ED Entered STN: 15 Aug 2006

AB Rebamipide lysinate and rebamipide argininate and a pharmaceutical preparation containing the same as active substance, which rebamipide lysinate and rebamipide argininate have improved solubility in solvent and reactivity, so that it can be useful for treatment of gastric ulcer, acute gastritis and chronic gastritis, are provided. The rebamipide lysinate and rebamipide argininate are prepared by reacting rebamipide with L-lysine and L-arginine in an equivalent ratio of 1:1 to 1:5. The pharmaceutical preparation contains the rebamipide lysinate and rebamipide argininate as the active substance.

IT 847165-02-0P, Rebamipide lysinate 861243-10-9P

RL: PAC (Pharmacological activity); SPN (Synthetic preparation); BIOL

(Biological study); PREP (Preparation)

(rebamipide lysinate and rebamipide argininate and pharmaceutical preparation containing the same as active substance)

RN 847165-02-0 HCAPLUS

CN L-Lysine, mono[α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo-4-quinolinepropanoate] (9CI) (CA INDEX NAME)

CM 1

CRN 90098-04-7

CMF C19 H15 C1 N2 O4

CM 2

CRN 56-87-1

CMF C6 H14 N2 O2

Absolute stereochemistry.

RN 861243-10-9 HCAPLUS

CN L-Arginine, mono[α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo-4-quinolinepropanoate] (9CI) (CA INDEX NAME)

CM 1

CRN 90098-04-7

CMF C19 H15 C1 N2 O4

CM 2

CRN 74-79-3

CMF C6 H14 N4 O2

Absolute stereochemistry.

IT 90098-04-7, Rebamipide

RL: RCT (Reactant); RACT (Reactant or reagent) (rebamipide lysinate and rebamipide argininate and pharmaceutical preparation containing the same as active substance)

RN 90098-04-7 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)

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L126 ANSWER 3 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN
ACCESSION NUMBER: 2006:542584 HCAPLUS <u>Full-text</u>
                          145:27876
DOCUMENT NUMBER:
                          Catalytic hydrogenolysis process for the removal of
TITLE:
                          the 2-amino-3-[6-bromo-2(1H)-quinolon-4-yl]propionic
                          acid impurity in preparing rebamipide
                         Nishitani, Shinji; Fukuda, Norio
INVENTOR(S):
                       Otsuka Pharmaceutical Co., Ltd., Japan
PATENT ASSIGNEE(S):
                         PCT Int. Appl., 17 pp.
SOURCE:
                          CODEN: PIXXD2
DOCUMENT TYPE:
                          Patent
                          English
LANGUAGE:
FAMILY ACC. NUM. COUNT: 1
PATENT INFORMATION:
     PATENT NO.
                      KIND DATE APPLICATION NO.
                                                                      DATE
                                 _____
                                              _____
                         ____
     WO 2006059781
                          A1 20060608 WO 2005-JP22412
                                                                       20051130 <--
         W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,
              CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD,
              GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KR,
              KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX,
              MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE,
              SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC,
              VN, YU, ZA, ZM, ZW
          RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE,
              IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ,
              CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH,
              GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY,
              KG, KZ, MD, RU, TJ, TM
JP 2007503476
    JP 3911008
    B2 20070509
    CN 1922145
    A 20070228
    CN 2005-80005778
    IN 2006DN04286
    A 20070803
    IN 2006-DN4286
    QUS 2007249835
    A1 20071025
    US 2007085057
    A 20070827
    KR 2007085057
    A 20070827
    KR 2004-348425
    A 20041201 <--
    WO 2005-JP22412
    W 20051130
OTHER SOURCE(S):
                    CASREACT 145:27876
     Entered STN: 09 Jun 2006
ED
      In the preparation of rebamipide, the 2-amino-3-[6-bromo-2(1H)-quinolon-4-
AB
      yl]propionic acid impurity contained in crude 2-amino-3-[2(1H)-quinolon-4-
      yl]propionic acid is subjected to hydrogenolysis using an aqueous basic
      solution (e.g., aqueous NaOH) of Raney nickel catalyst and hydrogen to produce
      pure 2-amino-3-[2(1H)-quinolon-4-y1] propionic acid, which is then amidated
      with 4-chlorobenzoyl chloride in a basic aqueous solution (e.g., aqueous NaOH)
      to give rebamipide.
ΤT
     90098-04-7P, Rebamipide
     RL: IMF (Industrial manufacture); SPN (Synthetic preparation); PREP
      (Preparation)
         (catalytic hydrogenolysis process for the removal of the
         2-amino-3-[6-bromo-2(1H)-quinolon-4-yl]propionic acid impurity in
        preparing rebamipide)
     90098-04-7 HCAPLUS
RN
     4-Quinolinepropanoic acid, \alpha-[(4-chlorobenzoyl)amino]-1,2-dihydro-2-
CN
```

oxo- (CA INDEX NAME)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L126 ANSWER 4 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2006:469931 HCAPLUS $\underline{\text{Full-text}}$

DOCUMENT NUMBER: 144:474955

TITLE: Aqueous ophthalmic suspension of crystalline

rebamipide

INVENTOR(S): Matsuda, Takakuni; Hiraoka, Shogo; Tomohira, Yuso;

Ishikawa, Shinichi

PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PAT	PATENT NO.					KIND DATE		APPLICATION NO.						DATE			
WO	2006	0520	18		A1 20060518			,	WO 2005-JP21178					20051111 <			
	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KM,	KN,	KP,	KR,
		KΖ,	LC,	LK,	LR,	LS,	LT,	LU,	LV,	LY,	MA,	MD,	MG,	MK,	MN,	MW,	MX,
		MZ,	NA,	NG,	NI,	NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,
		SG,	SK,	SL,	SM,	SY,	ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,
		VN,	YU,	ZA,	ZM,	ZW											
	RW:	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,
		IS,	ΙT,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	BJ,
		CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	ΤG,	BW,	GH,
		GM,	KΕ,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	ΑZ,	BY,
		KG,	KΖ,	MD,	RU,	ΤJ,	TM										
AU	2005	3029	8 0		A1		2006	0518		AU 2	005-	3029	8 0		2	0051	111 <
CA	2584	017			A1		2006	0518	1	CA 2	005-	2584	017		2	0051	111 <
EΡ	1812	000			A1		2007	0801		EP 2	005-	8067	37		2	0051	111 <
	R:	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,
		IS,	ΙΤ,	LI,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR	
CN	1010	5663	6		А		2007	1017	1	CN 2	005-	8003	8786		2	0051	111 <
US	2007	2877	29		A1		2007	1213		US 2	007-	6673	13		2	0070	509 <
MX	2007	0578	2		А		2007	0719]	MX 2	007-	5782			2	0070	514 <
IN	2007	DN 0 4	061		А		2007	0824		IN 2	007-	DN 40	61		2	0070	530 <

KR 2007092965 A 20070914 KR 2007-713372 20070614 <-PRIORITY APPLN. INFO.: JP 2004-330140 A 20041115 <-WO 2005-JP21178 W 20051111

ED Entered STN: 19 May 2006

AB The invention provides an ophthalmic product containing rebamipide, which has a transparency enough to be agreeable feeling on using it and has neutral to weakly acidic pH not to injure the keratoconjunctiva of a patient suffering from dry eye. An aqueous suspension of crystalline rebamipide which has an improved transparency is provided by adding an aqueous solution of rebamipide dissolved by a base such as sodium hydroxide or an aqueous solution of a salt of rebamipide to an aqueous acidic solution such as hydrochloric acid containing at least one of the compds. selected from water-soluble polymers and surfactants, and mixing them.

IT 90098-04-7, Rebamipide

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (aqueous ophthalmic suspension of crystalline rebamipide)

RN 90098-04-7 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)

REFERENCE COUNT: 16 THERE ARE 16 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L126 ANSWER 5 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2006:440131 HCAPLUS Full-text

DOCUMENT NUMBER: 144:456542

TITLE: Hemostatic agent internally applied through endoscope

and application method thereof

INVENTOR(S): Na, Kun; Lee, Don Haeng

PATENT ASSIGNEE(S): S. Korea

SOURCE: PCT Int. Appl., 14 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO. KIND DATE APPLICATION NO. DATE

WO 2006049463 A1 20060511 WO 2005-KR3730 20051104 <-W: AE, AG, AL, AM, AT, AU, AZ, BA, BB, BG, BR, BW, BY, BZ, CA, CH,

CN, CO, CR, CU, CZ, DE, DK, DM, DZ, EC, EE, EG, ES, FI, GB, GD, GE, GH, GM, HR, HU, ID, IL, IN, IS, JP, KE, KG, KM, KN, KP, KZ, LC, LK, LR, LS, LT, LU, LV, LY, MA, MD, MG, MK, MN, MW, MX, MZ, NA, NG, NI, NO, NZ, OM, PG, PH, PL, PT, RO, RU, SC, SD, SE, SG, SK, SL, SM, SY, TJ, TM, TN, TR, TT, TZ, UA, UG, US, UZ, VC, VN, YU, ZA, ZM, ZW RW: AT, BE, BG, CH, CY, CZ, DE, DK, EE, ES, FI, FR, GB, GR, HU, IE, IS, IT, LT, LU, LV, MC, NL, PL, PT, RO, SE, SI, SK, TR, BF, BJ, CF, CG, CI, CM, GA, GN, GQ, GW, ML, MR, NE, SN, TD, TG, BW, GH, GM, KE, LS, MW, MZ, NA, SD, SL, SZ, TZ, UG, ZM, ZW, AM, AZ, BY, KG, KZ, MD, RU, TJ, TM 20060510 KR 2004-89885 KR 2006040329 Α 20041105 <--PRIORITY APPLN. INFO.: KR 2004-89885 A 20041105 <--

ED Entered STN: 11 May 2006

Provided is a hemostatic agent for internal body use, which can be applied AΒ onto a bleeding lesion of the gastrointestinal tract by an endoscopic hemostatic method, and a method of applying the hemostatic agent onto the bleeding lesion. The coating agent is a polymer solution prepared by dissolving a cationic or an anionic reaction product into a polysaccharide solution The coating agent hemostatic agent for stopping bleeding from a lesion of a mucous membrane by being applied onto the lesion of the mucous membrane through an endoscope, comprising a coating agent as a polymer solution prepared by dissolving a cationic or an anionic reaction product into a polysaccharide solution, wherein the coating agent has adherence high enough to flowthrough an endoscope catheter, biocompatibility, and bioadherence induced by the interaction with mucous membrane due to hydrogen bonds, ion bonds or hydrophobic bonds. According to the hemostatic agent and method thereof, since the hemostatic agent is applied onto an ulcer through an endoscope, the ulcer can be completely covered with the hemostatic agent. a result, bleeding from the ulcer can be totally stopped and there is no major probability of rebleeding. Further, since the hemostatic agent contains the supplement, the ulcer can be cured by the medical effect and growth factor of the supplement. The hemostatic agent comprises a polymer and a drug (no data).

IT 90098-04-7, Rebamipide

RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (hemostatic agent internally applied through endoscope and application method thereof)

RN 90098-04-7 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L126 ANSWER 6 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2006:338726 HCAPLUS $\underline{\text{Full-text}}$

DOCUMENT NUMBER: 144:363114

TITLE: Pharmaceuticals for treatment of intestinal disorders

INVENTOR(S): Omi, Yoshihiro; Shiro, Toshiaki

PATENT ASSIGNEE(S): Iryohojin Omikai, Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 23 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 2006096702	А	20060413	JP 2004-284768	20040929 <
PRIORITY APPLN. INFO.:			JP 2004-284768	20040929 <

ED Entered STN: 13 Apr 2006

AB Title pharmaceuticals, which promote or inhibit the activity of intestinal mucus-secretory cells, contain teprenone, plaunotol, ornoprostil, enprostil, misoprostol, rebamipide, sucralfate, polaprezinc, azulene, and/or egualen Na mixture as active ingredients. Thus, the pharmaceuticals were useful in treatment of damaged germ cells in rectum in patients.

IT 90098-04-7, Rebamipide

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(treatment of intestinal disorders by promoting or inhibiting activity of intestinal mucus-secretory cells)

RN 90098-04-7 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoy1)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)

L126 ANSWER 7 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2006:238277 HCAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 144:280648

TITLE: Rebamipide preparation for rectal administration to be

prepared before using

INVENTOR(S): Doi, Hirofumi; Sumida, Shun-Ichiro PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan

SOURCE: PCT Int. Appl., 24 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA	PATENT NO.					KIND DATE		APPLICATION NO.					DATE					
WO	2006	0282	70		A1	20060316			,	WO 2005-JP16985					20050908 <			
	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	AZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,	
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	ΚE,	KG,	KM,	KP,	KR,	KΖ,	LC,	
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NG,	
		NI,	NO,	NΖ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	
		SM,	SY,	ТJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	
		ZM,	ZW															
	RW:	AT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	EE,	ES,	FI,	FR,	GB,	GR,	HU,	IE,	
		IS,	ΙT,	LT,	LU,	LV,	MC,	NL,	PL,	PT,	RO,	SE,	SI,	SK,	TR,	BF,	ВJ,	
		CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	MR,	ΝE,	SN,	TD,	TG,	BW,	GH,	
		GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	ΑM,	ΑZ,	BY,	
		KG,	KΖ,	MD,	RU,	ТJ,	TM											
JP	JP 2006104194				А		2006	0420	JP 2005-257878				20050906 <					
PRIORIT	PRIORITY APPLN. INFO.:								1	JP 2004-263638			A 20040910 <					

ED Entered STN: 17 Mar 2006

AB A rebamipide preparation for rectal administration to be prepared before using is disclosed, which is a solid particle preparation comprising rebamipide and carmellose sodium and having excellent dispersibility in an aqueous vehicle, and can be administered rectally in the form of an enema dispersion preparation by dispersing the solid particle preparation in an aqueous vehicle when used. The present rebamipide preparation is in a solid particle form such as a powder or pulverized powder form or a fine granule or granule form, and hence, it has excellent storage stability.

IT 90098-04-7, Rebamipide

RL: PEP (Physical, engineering or chemical process); PYP (Physical process); THU (Therapeutic use); BIOL (Biological study); PROC (Process); USES (Uses)

(rebamipide preparation for rectal administration to be prepared before using) $\ensuremath{\mathsf{using}}$

RN 90098-04-7 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)

REFERENCE COUNT: 19 THERE ARE 19 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L126 ANSWER 8 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2006:101964 HCAPLUS Full-text

DOCUMENT NUMBER: 144:184652

TITLE: Novel pathways in the etiology of cancer, and

treatment methods

INVENTOR(S): Benz, Christopher C.

PATENT ASSIGNEE(S): Buck Institute for Age Research, USA

SOURCE: U.S. Pat. Appl. Publ., 49 pp.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
				_	
US 2006024691	A1	20060202	US 2005-90546		20050324 <
PRIORITY APPLN. INFO.:			US 2004-556774P	Р	20040325 <
			US 2004-580534P	P	20040616 <
			US 2004-629691P	Ρ	20041119 <

ED Entered STN: 03 Feb 2006

AB The invention pertains to the identification of two novel epithelial signaling pathways in ER-pos. breast cancers and the discovery that the cellular biol. and (likely also the clin. outcome) of ER-pos. breast cancer cells is unexpectedly altered when these signaling pathways are activated. The first pathway pertains to the discovery that NF-κB activation and/or DNA binding is implicated in the etiol. of ER-pos. breast (and other) cancers. The second pathway involves ligand-independent quinine-mediated ER activation by phosphorylation (e.g. on SER-118 and SER-167 residues of ER) and nuclear translocation of full-length (67 kDA) ER as well as the phorphorylating activation of a truncated and nuclear-localized ER variant (.apprx.52 kDa). Also disclosed are methods for identifying patients likely to respond to hormonal therapy and for selecting a therapeutic regimen for the treatment of cancer.

IT 90098-04-7, Rebamipide

RL: PAC (Pharmacological activity); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(pathways in etiol. of cancer, and treatment methods)

RN 90098-04-7 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)

L126 ANSWER 9 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:1223775 HCAPLUS Full-text

DOCUMENT NUMBER: 143:483122

TITLE: Methods and articles for the delivery of drugs to the

eye for the treatment of posterior segment diseases

INVENTOR(S): Schultz, Clyde

PATENT ASSIGNEE(S): Directcontact LLC, USA

SOURCE: U.S. Pat. Appl. Publ., 11 pp., Cont.-in-part of U.S.

Ser. No. 971,997.

CODEN: USXXCO

DOCUMENT TYPE: Patent LANGUAGE: English

FAMILY ACC. NUM. COUNT: 2

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
				_	
US 2005255144	A1	20051117	US 2005-102454		20050409 <
US 2005208102	A1	20050922	US 2004-821718		20040409 <
US 2005074497	A1	20050407	US 2004-971997		20041022 <
IN 2006CN03687	A	20070112	IN 2006-CN3687		20061006 <
PRIORITY APPLN. INFO.:			US 2003-461354P	P	20030409 <
			US 2004-821718	A2	20040409 <
			US 2004-971997	A2	20041022 <
			WO 2005-US12185	W	20050409

ED Entered STN: 18 Nov 2005

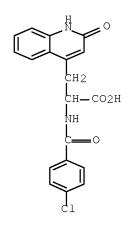
AB This invention provides articles and methods for drug delivery including a hydrogel containing one or more drugs for the treatment of a posterior segment disease and/or dry eye conditions. Exemplary drugs are anti-angiogenesis compds. for the treatment of macular degeneration. Allowing passive transference of this drug from a dilute solution into the hydrogel produces the delivery system. The hydrogel, when placed in contact with the eye, delivers the drug. The delivery of the drug is sustained over an extended period of time, which is of particular utility in the eye, which is periodically flushed with tears. This sustained delivery accelerates the treatment process while avoiding potential damaging effects of localized delivery of high concns. of compds., e.g., from eye drops.

ΙT 90098-04-7, OPC 12759

> RL: THU (Therapeutic use); BIOL (Biological study); USES (Uses) (methods and articles for delivery of drugs to eye for treatment of posterior segment diseases)

RN 90098-04-7 HCAPLUS

4-Quinolinepropanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-CN oxo- (CA INDEX NAME)



L126 ANSWER 10 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 2005:696878 HCAPLUS Full-text

DOCUMENT NUMBER:

TITLE:

143:179640

Amine salt of carbostyril derivative

INVENTOR(S): Nishioka, Yoshihiro; Aki, Shinji; Fujita, Shigekazu;

Onishi, Yoshinao; Sumida, Shunichiro Otsuka Pharmaceutical Co., Ltd., Japan

PATENT ASSIGNEE(S): SOURCE:

PCT Int. Appl., 45 pp.

CODEN: PIXXD2

DOCUMENT TYPE: Patent English LANGUAGE:

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

PA'	TENT	NO.			KIN	D	DATE			APPL	ICAT	ION I	NO.	DATE				
WO	2005	0708	 92		A1	A1 20050804				WO 2005-JP1034					20050120 <			
	W:	ΑE,	AG,	AL,	AM,	ΑT,	ΑU,	ΑZ,	BA,	BB,	BG,	BR,	BW,	BY,	BZ,	CA,	CH,	
		CN,	CO,	CR,	CU,	CZ,	DE,	DK,	DM,	DZ,	EC,	EE,	EG,	ES,	FI,	GB,	GD,	
		GE,	GH,	GM,	HR,	HU,	ID,	IL,	IN,	IS,	JP,	ΚE,	KG,	KP,	KR,	KΖ,	LC,	
		LK,	LR,	LS,	LT,	LU,	LV,	MA,	MD,	MG,	MK,	MN,	MW,	MX,	MZ,	NA,	NI,	
		NO,	NZ,	OM,	PG,	PH,	PL,	PT,	RO,	RU,	SC,	SD,	SE,	SG,	SK,	SL,	SY,	
		ΤJ,	TM,	TN,	TR,	TT,	TZ,	UA,	UG,	US,	UZ,	VC,	VN,	YU,	ZA,	ZM,	ZW	
	RW:	BW,	GH,	GM,	KE,	LS,	MW,	MZ,	NA,	SD,	SL,	SZ,	TZ,	UG,	ZM,	ZW,	AM,	
		ΑZ,	BY,	KG,	KΖ,	MD,	RU,	ΤJ,	TM,	ΑT,	BE,	BG,	CH,	CY,	CZ,	DE,	DK,	
		EE,	ES,	FI,	FR,	GB,	GR,	HU,	ΙE,	IS,	ΙT,	LT,	LU,	MC,	NL,	PL,	PT,	
		RO,	SE,	SI,	SK,	TR,	BF,	ΒJ,	CF,	CG,	CI,	CM,	GΑ,	GN,	GQ,	GW,	ML,	
		MR,	ΝE,	SN,	TD,	ΤG												
AU	2005	2064	30		A1		2005	0804		AU 2	005-	2064	30		2	0050	120 <	
CA	2553	231			A1		2005	0804		CA 2	005-	2553.	231		2	0050	120 <	
EP	1706	383			A1 20061004			EP 2005-704144						2	0050	120 <		
	R:	AT,	BE,	CH,	DE,	DK,	ES,	FR,	GB,	GR,	ΙT,	LI,	LU,	NL,	SE,	MC,	PT,	

IE, SI, LT,	FI,	RO, CY, TR,	BG, CZ, EE, HU, PL, Sk	<, ∶	IS
CN 1934086	Α	20070321	CN 2005-80008647		20050120 <
JP 2007514641	T	20070607	JP 2006-520510		20050120 <
BR 2005006982	А	20070703	BR 2005-6982		20050120 <
US 2007155787	A1	20070705	US 2006-586453		20060718 <
MX 2006PA08306	A	20060929	MX 2006-PA8306		20060721 <
IN 2006DN04311	Α	20070803	IN 2006-DN4311		20060726 <
PRIORITY APPLN. INFO.:			JP 2004-13402	Α	20040121 <
			WO 2005-JP1034	W	20050120

OTHER SOURCE(S): MARPAT 143:179640

ED Entered STN: 05 Aug 2005

GΙ

The invention provides an amine salt of a carbostyril derivative formed from a carbostyril derivative (I R = halo; the substituted position of the side chain is 3- or 4-position in the carbostyril skeleton; and the bonding between 3- and 4-positions of the carbostyril skeleton is a single or a double bond) and an amine. The compds. are useful for treating various diseases, especially as aqueous formulations due to the superior water solubility and pharmacol. effects. Thus, 2-(4-chlorobenzoylamino)-3-(2-quinolon-4-yl)propionic acid diethanolamine salt was prepared by refluxing a suspension of 2.00 g of 2-(4-chlorobenzoylamino)-3-(2-quinolon-4-yl)propionic acid and 0.62 g of diethanolamine in 100 mL of ethanol for 30 min. An ophthalmic solution contained II 0.2, benzalkonium chloride 0.01, sodium dihydrogen phosphate 0.56, potassium dihydrogen phosphate 0.8, and water qs to 100.0 mL.

IT 90098-04-7P

RL: PAC (Pharmacological activity); RCT (Reactant); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); RACT (Reactant or reagent); USES (Uses)

(amine salt of carbostyril derivative)

Ι

RN 90098-04-7 HCAPLUS

CM 2

CRN 56-87-1

CMF C6 H14 N2 O2

Absolute stereochemistry.

RN 861243-10-9 HCAPLUS

CN L-Arginine, mono[α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo-4-quinolinepropanoate] (9CI) (CA INDEX NAME)

CM 1

CRN 90098-04-7

CMF C19 H15 C1 N2 O4

CM 2

CRN 74-79-3

CMF C6 H14 N4 O2

Absolute stereochemistry.

RN 861243-11-0 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo-, compd. with 1,2-ethane diamine (2:1) (CA INDEX NAME)

CM 1

CRN 90098-04-7

CMF C19 H15 C1 N2 O4

CM 2

CRN 107-15-3 CMF C2 H8 N2

H 2 N — C H 2 — C H 2 — N H 2

RN 861243-12-1 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo-, compd. with 2-amino-2-(hydroxymethyl)-1,3-propanediol (1:1) (CA INDEX NAME)

CM 1

CRN 90098-04-7

CMF C19 H15 C1 N2 O4

CM 2

CRN 77-86-1 CMF C4 H11 N O3

RN 861243-13-2 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo-, compd. with 2,2'-iminobis [ethanol] (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 90098-04-7 CMF C19 H15 C1 N2 O4

CM 2

CRN 111-42-2 CMF C4 H11 N O2

HO-CH2-CH2-NH-CH2-CH2-OH

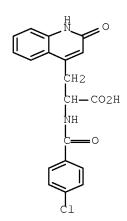
RN 861243-14-3 HCAPLUS

CN 4-Quinolinepropanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo-, compd. with 3,3'-iminobis[1-propanol] (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 90098-04-7

CMF C19 H15 C1 N2 O4



CM 2

CRN 14002-33-6 CMF C6 H15 N O2

HO- (CH2)3-NH- (CH2)3-OH

RN 861243-15-4 HCAPLUS

CN D-Glucitol, 1-deoxy-1-(methylamino)-, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo-4-quinolinepropanoate (salt) (9CI) (CA INDEX NAME)

CM 1

CRN 90098-04-7

CMF C19 H15 C1 N2 O4

CM 2

CRN 6284-40-8 CMF C7 H17 N O5

Absolute stereochemistry.

REFERENCE COUNT: 3 THERE ARE 3 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L126 ANSWER 122 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1998:664406 HCAPLUS Full-text

DOCUMENT NUMBER: 130:32871

TITLE: Effect of rebamipide on the glycosaminoglycan content

of the ulcerated rat stomach

AUTHOR(S): Song, D.-U.; Ryu, M.-H.; Chay, K.-O.; Jung, Y.-D.;

Yang, S.-Y.; Cha, S.-H.; Lee, M.-W.; Ahn, B.-W.

CORPORATE SOURCE: Department of Biochemistry, Chonnam University Medical

School, Kwangju, 501-190, S. Korea

SOURCE: Fundamental & Clinical Pharmacology (1998),

12(5), 546-552

CODEN: FCPHEZ; ISSN: 0767-3981

PUBLISHER: Editions Scientifiques et Medicales Elsevier

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 21 Oct 1998

AB To elucidate the mechanism of the antiulcer effect of rebamipide (2-(4-chlorobenzoylamino)-3-[2-(1H)-quinolinon-4-yl] propionic acid), changes in glycosaminoglycan (GAG), uronic acid and hexosamine contents of stomach tissue were examined in rats treated with the ulcer-inducing agents and/or

rebamipide. Uronic acid and hexosamine contents in acid hydrolyzates of stomach tissue were increased after diethyldithiocarbamate (DDC, 800 mg/kg, s.c.) or histamine (300 mg/kg, i.p.) treatment, and similar changes in the GAG, uronic acid, and hexosamine levels were observed in stomach tissue exts. Pretreatment with rebamipide (60 mg/kg, i.p.) resulted in an addnl. increase in the contents of the above components after DDC or histamine treatment. However, rebamipide treatment alone did not increase the gastric contents of GAG and GAG components in normal rats. Gel filtration chromatog. of extracted GAGs suggested that DDC, histamine and rebamipide treatments do not cause a change in the aggregated forms of gastric GAGs. These results suggest that rebamipide stimulates the GAG synthesis in the ulcerated stomach and that this effect may contribute to the healing process of gastric ulcer.

IT 90098-04-7, Rebamipide

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(antiulcer action of rebamipide and stimulation of glycosaminoglycan content of ulcerated stomach)

RN 90098-04-7 HCAPLUS

CN 4-Quinolinepropanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)

SOURCE:

REFERENCE COUNT: 26 THERE ARE 26 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L126 ANSWER 123 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1998:649842 HCAPLUS Full-text

DOCUMENT NUMBER: 130:60876

TITLE: Inhibitory effects of rebamipide on ENNG-induced

duodenal carcinogenesis in mice: a possible strategy

for chemoprevention of gastrointestinal cancers

AUTHOR(S): Yamane, Tetsuro; Nakatani, Hirohisa; Matsumoto,

Hirohiko; Iwata, Yasushi; Kikuoka, Norikazu;

Takahashi, Toshio

CORPORATE SOURCE: First Department of Surgery, Kyoto Prefectural

University of Medicine, Kyoto, 602, Japan Digestive Diseases and Sciences (1998),

43/9 Suppl Inflammation and Mucocal Injury

43(9, Suppl., Inflammation and Mucosal Injury,

Proceedings of the Second Mucosta

InternationalSymposium, 1997), 207S-211S

CODEN: DDSCDJ; ISSN: 0163-2116

PUBLISHER: Plenum Publishing Corp.

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 14 Oct 1998

Rebamipide is a potent antioxidative agent; it increases gastric mucosal PGE2 AB production and thus protects the gastric mucosa. We hypothesized that the mechanisms of ulcer formation could be extended to carcinogenesis and that an increase in gastric mucosal protection may result in a decrease in gastric carcinogenesis. Therefore, we assessed the inhibitory effects of rebamipide on N-ethyl-N'-nitro-N-nitrosoquanidine (ENNG) -induced carcinogenesis in mice. The percentage of tumor-bearing mice in three treatment groups-ENNG + rebamipide 20 mg, ENNG + rebamipide 50 mg, and ENNG alone-was 55%, 42%, and 67%, resp. The incidence of tumorigenesis tended to decrease with increasing doses of rebamipide. The difference between ENNG + rebamipide 50 mg and ENNG alone was statistically significant (P < 0.05). These results suggest that rebamipide may strengthen the host defense mechanisms related to carcinogenesis in the digestive tract.

90098-04-7, Rebamipide ΙT

> RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

> (rebamipide inhibition of ENNG-induced duodenal carcinogenesis in mice) 90098-04-7 HCAPLUS

CN 4-Quinolinepropanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2oxo- (CA INDEX NAME)

RN

2.2 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS REFERENCE COUNT: RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L126 ANSWER 124 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1998:649841 HCAPLUS Full-text

DOCUMENT NUMBER:

TITLE: Effect of rebamipide on Helicobacter pylori infection

in patients with peptic ulcer

AUTHOR(S): Nebiki, Hiroko; Higuchi, Kazuhide; Arakawa, Tetsuo;

Ando, Kenji; Uchida, Toshiyuki; Ito, Hiroyuki;

Harihara, Shigeyoshi; Kuroki, Tetsuo; Kobayashi, Kenzo

Department of Gastroenterology, Osaka City University CORPORATE SOURCE: Medical School, Osaka City General Hospital and the Third Department of Internal Medicine, Osaka, 534,

Japan

SOURCE: Digestive Diseases and Sciences (1998),

43(9, Suppl., Inflammation and Mucosal Injury,

Proceedings of the Second Mucosta

International Symposium, 1997), 203S-206S

CODEN: DDSCDJ; ISSN: 0163-2116

PUBLISHER: Plenum Publishing Corp.

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 14 Oct 1998

This study was designed to assess whether the gastroprotective drug, AΒ rebamipide, aids in eradication of H. pylori. One hundred twenty patients, endoscopically diagnosed with gastric or duodenal ulcers and H. pylori infection, were randomly allocated to two treatment groups. Sixty patients received 40 mg of omeprazole twice a day, 1500 mg of amoxicillin three times a day, and 300 mg of rebamipide three times a day (group OAR); the other 60 patients received the same dosage of omeprazole and amoxicillin but no rebamipide for two weeks (group OA). All patients subsequently received an H2-receptor antagonist for six weeks. At the end of the treatment, endoscopy was performed to assess the status of the ulcers as well as the extent of H. pylori infection. In the intent-to-treat (73.3 vs. 51.7%, P = 0.014) and perprotocol analyses (75.9 vs. 55.3%, P = 0.021) the cure rates for H. pylori infection in group OAR were found to be significantly higher than those in group OA. Our findings suggest that rebamipide aids in curing H. pylori infection. This drug does not induce formation of resistant colonies and has few side effects.

IT 90098-04-7, Rebamipide

RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(rebamipide combined with omeprazole and amoxicillin for Helicobacter pylori infection in humans with peptic ulcer)

RN 90098-04-7 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L126 ANSWER 125 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1998:649840 HCAPLUS Full-text DOCUMENT NUMBER: 130:47343

TITLE: Effects of rebamipide in combination with lansoprazole

and amoxicillin on Helicobacter pylori-infected

gastric ulcer patients

AUTHOR(S): Kato, Mototsugu; Asaka, Masahiro; Sugiyama, Toshiro;

Kudo, Mineo; Nishikawa, Keiko; Sukegawa, Makoto; Hokari, Kaku; Katagiri, Masaki; Sato, Fujio; Kagaya,

Hidetoshi; Takeda, Hiroshi

CORPORATE SOURCE: Third Department of Internal, Medicine, Hokkaido

University School of Medicine, Sapporo, 060, Japan

SOURCE: Digestive Diseases and Sciences (1998),

43(9, Suppl., Inflammation and Mucosal Injury,

Proceedings of the Second Mucosta

International Symposium, 1997), 198S-202S

CODEN: DDSCDJ; ISSN: 0163-2116

PUBLISHER: Plenum Publishing Corp.

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 14 Oct 1998

The aim of this study was to compare the additive effect of rebamipide with that of teprenone in combination with dual therapy on H. pylori eradication. A total of 102 H. pylori-pos. gastric ulcer patients were assigned at random to two groups; in addition to dual therapy (amoxicillin 500 mg thrice daily and lansoprazole 30 mg every morning for two weeks), one group received rebamipide 100 mg thrice daily for eight weeks, while the other group received teprenone 50 mg thrice daily for eight weeks. H. pylori diagnosis after treatment was made by [13C]UBT. The ulcer healing rate was 85.7% in the rebamipide group and 79.5% in the teprenone group (P = NS). The eradication rate was 68.4% (95% CI = 54-83%) in the rebamipide group and 47.7% (95% CI = 32-61%) in the teprenone group (P = 0.043) by per-protocol anal. These findings suggest that the efficacy of dual therapy may be increased by the administration of rebamipide.

IT 90098-04-7, Rebamipide

RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(rebamipide with lansoprazole and amoxicillin treatment of Helicobacter pylori-infected humans with gastric ulcer)

RN 90098-04-7 HCAPLUS

REFERENCE COUNT: 20 THERE ARE 20 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L126 ANSWER 126 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1998:649839 HCAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 130:47342

TITLE: Quantitative and qualitative usefulness of rebamipide

in eradication regimen of Helicobacter pylori

AUTHOR(S): Hahm, K. B.; Lee, K. J.; Kim, Y. S.; Kim, J. H.; Cho,

S. W.; Yim, H.; Joo, H. J.

CORPORATE SOURCE: Department of Gastroenterology and Anatomic Pathology,

Ajou University School of Medicine, Suwon, S. Korea

SOURCE: Digestive Diseases and Sciences (1998),

43(9, Suppl., Inflammation and Mucosal Injury,

Proceedings of the Second Mucosta

International Symposium, 1997), 1925-1978

CODEN: DDSCDJ; ISSN: 0163-2116

PUBLISHER: Plenum Publishing Corp.

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 14 Oct 1998

The aim of the present study was to determine the efficacy of a new AB combination regimen including antioxidant, proton pump inhibitor, and antibiotics against Helicobacter pylori and to document the changes of oxidative stress and cytokines involved in H. pylori-associated gastritis. From each of 57 patients with endoscopically diagnosed gastric and/or duodenal ulcers associated with H. pylori infection, five gastric antral biopsy specimens were taken for the diagnosis of H. pylori and for exptl. measures. The patients were then treated either with lansoprazole 30 mg + amoxicillin 1.5 g (LA group; 21 patients) or lansoprazole 30 mg + amoxicillin 1.5 g + rebamipide 300 mg (LAM group; 36 patients) for two weeks. Four weeks after the initiation of treatment, the patients were endoscoped again and biopsy specimens were obtained. Mucosal malondialdehyde (MDA) levels; myeloperoxidase (MPO) activities; superoxide dismutase; catalase; glutathione peroxidase; cytokines IL-1, IL-6, TNF- α ; and chemokines IL-8, GRO- α , RANTES (regulated on activation normal T expressed and secreted) were measured. Using paraffin-embedded tissue sections, in situ terminal deoxyribonucleotide transferase (TdT) -mediated dUTP nick end labeling (TUNEL) for apoptosis and immunohistochem. staining for inducible nitric oxide synthase (iNOS) were performed. Two weeks of treatment with the LA regimen resulted in 57.4% eradication rates of H. pylori, whereas two weeks of treatment with the LAM regimen resulted in 75.0% eradication rates. Eradication rates between these two groups were statistically significantly different (P < 0.05). Mucosal MDA levels and MPO activities were significantly lower in the LAM group than the LA group. Mucosal levels of cytokines IL-1, IL-6, and TNF-lpha and of chemokines IL-8, GRO- α , and RANTES were all significantly decreased after the treatment of H. pylori, especially in the LAM-treated group. The apoptotic index and iNOS score were significantly reduced after the eradication of H. pylori. addition of the antioxidative drug rebamipide to the eradication regimen against H. pylori has quant. and qual. advantages such as either augmenting the eradication rates of H. pylori or decreasing oxidative stress and cytokines levels generated by H. pylori infection.

IT 90098-04-7, Rebamipide

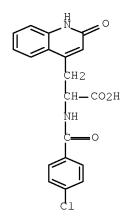
RN

RL: ADV (Adverse effect, including toxicity); BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(rebamipide antioxidant effectiveness in Helicobacter pylori eradication regimen in humans with gastritis)

90098-04-7 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)



REFERENCE COUNT: 22 THERE ARE 22 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L126 ANSWER 127 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1998:649838 HCAPLUS $\underline{\text{Full-text}}$

DOCUMENT NUMBER: 130:60875

TITLE: Effect of rebamipide on H. pylori-associated gastric

mucosal injury in Mongolian gerbils

AUTHOR(S): Suzuki, Hidekazu; Mori, Mikiji; Kai, Akemi; Suzuki,

Masayuki; Suematsu, Makoto; Miura, Soichiro; Ishii,

Hiromasa

CORPORATE SOURCE: Department of Internal Medicine and Biochemistry,

School of Medicine, Keio University, Tokyo, 160, Japan

SOURCE: Digestive Diseases and Sciences (1998),

43(9, Suppl., Inflammation and Mucosal Injury,

Proceedings of the Second Mucosta

InternationalSymposium, 1997), 181S-187S

CODEN: DDSCDJ; ISSN: 0163-2116

PUBLISHER: Plenum Publishing Corp.

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 14 Oct 1998

Helicobacter pylori colonized to gastric mucosa plays an important pathogenic AΒ role in gastric mucosal lesions. We previously reported that ethanol pretreatment promotes the extension of H. pylori-associated lesions. The present study was designed to examine the effect of rebamipide, a mucosal protective agent, on H. pylori-associated injury. Male Mongolian gerbils were orally inoculated with H. pylori; 30 min prior to inoculation, 40% ethanol was administered orally to these gerbils (Hp group). Controls were given 40% ethanol with culture medium (control group). Some gerbils in the Hp and control groups were fed rebamipide-containing diets, and the remaining gerbils received laboratory chow diets. H. pylori infection was evaluated by quant. bacterial culture and histol. examination Although H. pylori was persistently detected and a remarkable mucosal leukocyte infiltration was observed in the Hp groups, the bacteria had disappeared naturally in 67% of the gerbils and mucosal damage was mitigated in the Hp + rebamipide group at four weeks after the inoculation. Collectively, rebamipide might play a role in inhibiting the

level of ${\tt H.}$ pylori colonization and gastric lesion formation in Mongolian gerbils.

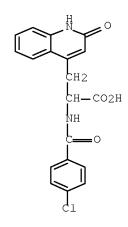
IT 90098-04-7, Rebamipide

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(effect of rebamipide on H. pylori-associated gastric mucosal injury in Mongolian gerbils)

RN 90098-04-7 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoy1)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)



REFERENCE COUNT: 15 THERE ARE 15 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L126 ANSWER 128 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1998:649837 HCAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 130:60874

TITLE: Molecular analysis of suppression of interleukin-8

production by rebamipide in Helicobacter
pylori-stimulated gastric cancer cell lines

AUTHOR(S): Aihara, Miki; Azuma, Atsushi; Takizawa, Hisao; Tsuchimoto, Daisuke; Funakoshi, Yukiko; Shindo,

Yutaka; Ohmoto, Yasukazu; Imagawa, Kenichi; Kikuchi,

Mikio; Mukaida, Naofumi; Matsushima, Kouji

CORPORATE SOURCE: Microbiological Research Institute and Cellular

Technology Institute, Otsuka Pharmaceutical Co. Ltd.,

Tokushima, 771-092, Japan

SOURCE: Digestive Diseases and Sciences (1998),

43(9, Suppl., Inflammation and Mucosal Injury,

Proceedings of the Second Mucosta

International Symposium, 1997), 174S-180S

CODEN: DDSCDJ; ISSN: 0163-2116

PUBLISHER: Plenum Publishing Corp.

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 14 Oct 1998

AB Interleukin-8 (IL-8) may play an important role in Helicobacter pylori infection-associated chronic active gastritis and peptic ulcer disease in human. We have recently reported that a gastric cancer cell line, MKN45, produced a massive amount of IL-8 upon coculture with live H. pylori.

Moreover, H. pylori induced the activation of NF- κ B as well as AP-1, leading to IL-8 gene transcription. In this study, we evaluated the effect of rebamipide, an antigastritis and antiulcer agent, on H. pylori-induced IL-8 production Rebamipide inhibited the production of IL-8 in several gastric cancer cell lines infected with H. pylori. In addition, rebamipide suppressed H. pylori-induced IL-8 gene expression at the transcriptional level as revealed by northern blotting anal. and luciferase activity in cells that were transfected with a luciferase expression vector linked with a 5'-flanking region of the IL-8 gene (bp -133 to +44). Furthermore, rebamipide significantly suppressed the NF- κ B activation by H. pylori infection. These results suggest that rebamipide may protect against the mucosal inflammation associated with H. pylori infection through inhibition of a proinflammatory cytokine, IL-8.

IT 90098-04-7, Rebamipide

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(mol. anal. of suppression of interleukin-8 production by rebamipide in Helicobacter pylori-stimulated gastric cancer cell lines)

RN 90098-04-7 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)

REFERENCE COUNT: 37 THERE ARE 37 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L126 ANSWER 129 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1998:649836 HCAPLUS Full-text

DOCUMENT NUMBER: 130:60873

TITLE: Nonopsonic activation of neutrophils by Helicobacter

pylori is inhibited by rebamipide

AUTHOR(S): Danielsson, Dan; Jurstrand, Margaretha

CORPORATE SOURCE: Department of Clinical Microbiology and Immunology,

Orebro Medical Center Hospital, Orebro, S-701 85,

Swed.

SOURCE: Digestive Diseases and Sciences (1998),

43(9, Suppl., Inflammation and Mucosal Injury,

Proceedings of the Second Mucosta

International Symposium, 1997), 167S-173S

CODEN: DDSCDJ; ISSN: 0163-2116

PUBLISHER: Plenum Publishing Corp.

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 14 Oct 1998

AΒ Some clin. isolates of nonopsonized H. pylori have the ability to activate neutrophils to an oxidative burst (neutrophil activating capacity, NAC), and such strains were significantly more often isolated from patients with peptic ulcer disease and active chronic gastritis. The purpose of the present work was to investigate the effect of rebamipide (Mucosta) on the release of reactive oxygen metabolites from neutrophils activated by various strains of H. pylori with or without NAC, nonopsonized or opsonized, using as controls fMLP and PMA, known activators of neutrophils, and to study the kinetics of these events by luminol-enhanced chemiluminescence and by flow cytometry. The results showed that the oxidative burst induced in neutrophils by fMLP and by nonopsonized or opsonized H. pylori with NAC was inhibited by rebamipide in a dose-dependent manner both in the early and late phases of activation. In contrast, the oxidative burst induced by opsonized H. pylori without NAC was not inhibited by rebamipide, which might indicate that it does not have the ability to block CR1 or CR3 receptors involved in opsonic phagocytosis but still has the ability to block the receptor(s) for NAC. The oxidative burst induced by PMA, which primarily activates protein kinase C, was not inhibited in the early phase but diminished 40-45% in the late phase with the 2 mM concentration of rebamipide, probably due to scavenging of reactive oxygen species. In conclusion, rebamipide has the ability to diminish the oxidative burst of neutrophils activated by nonopsonized or opsonized H. pylori organisms with neutrophil activating capacity, most likely through the blocking of fMLP-related receptors, inhibition of the production of reactive oxygen species, and the scavenging of such metabolites. Rebamipide may therefore be useful to prevent gastroduodenal lesions associated with gastric mucosal inflammation in H. pylori infection.

IT 90098-04-7

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(FR; rebamipide inhibition of nonopsonic activation of neutrophils by Helicobacter pylori)

RN 90098-04-7 HCAPLUS

L126 ANSWER 130 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1998:649835 HCAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 130:60872

TITLE: Effects of rebamipide on production of several

cytokines by human peripheral blood mononuclear cells

AUTHOR(S): Aihara, Miki; Imagawa, Kenichi; Funakoshi, Yukiko;

Ohmoto, Yasukazu; Kikuchi, Mikio

CORPORATE SOURCE: Microbiological Research Institute, and Cellular

Technology Institute, Otsuka Pharmaceutical Co. Ltd.,

Tokushima, 771-0192, Japan

SOURCE: Digestive Diseases and Sciences (1998),

43(9, Suppl., Inflammation and Mucosal Injury,

Proceedings of the Second Mucosta

InternationalSymposium, 1997), 160S-166S

CODEN: DDSCDJ; ISSN: 0163-2116

PUBLISHER: Plenum Publishing Corp.

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 14 Oct 1998

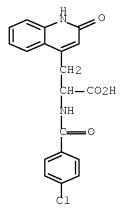
AΒ Recently, the relative contributions of local T helper cell responses of the Th1-type and Th2-type to the pathogenesis of gastritis and peptic ulcers associated with Helicobacter pylori infection have been examined However, the results were controversial with respect to whether cellular immunity (Th1type) or humoral immunity (Th2-type) responses predominate in H. pylori infection and with respect to how these responses may contribute to disease pathogenesis. In this study, we investigated the characteristics of the production of various cytokines induced by H. pylori or lipopolysaccharide (LPS), which was derived from H. pylori or Escherichia coli, in human peripheral blood mononuclear cells (PBMC). Live H. pylori induced production of many cytokines, such as IL-1 β , IL-10, IL-8, IFN- γ , and TNF- α , whereas we could not detect IL-2 or IL-4. Moreover, we evaluated the effect of rebamipide on the production of several cytokines from PBMC induced by various stimuli. Rebamipide suppressed the production of IL-8, IL-10, $TNF-\alpha$, and IL-1 β induced by H. pylori in a dose-dependent manner. On the other hand, the production of IL-12 induced by H. pylori showed a tendency to increase as a result of treatment of the cells with rebamipide. These results suggested that rebamipide might be effective in regulating cytokine responses in the H. pylori-infected host and maintaining host immunity. Moreover, it might contribute pos. to disease progression and bacterial eradication.

IT 90098-04-7, Rebamipide

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(rebamipide effect on cytokine production by human peripheral blood mononuclear cells)

RN 90098-04-7 HCAPLUS



REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L126 ANSWER 131 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1998:649834 HCAPLUS $\underline{\text{Full-text}}$

DOCUMENT NUMBER: 130:60752

TITLE: Effect of rebamipide on liver damage and increased

tumor necrosis factor in a rat model of endotoxin

shock

AUTHOR(S): Hong, K. W.; Kim, K. E.; Rhim, B. Y.; Lee, W. S.; Kim,

C. D.

CORPORATE SOURCE: Department of Pharmacology, College of Medicine, Pusan

National University, Pusan, 602-739, S. Korea

SOURCE: Digestive Diseases and Sciences (1998),

43(9, Suppl., Inflammation and Mucosal Injury,

Proceedings of the Second Mucosta

International Symposium, 1997), 154S-159S

CODEN: DDSCDJ; ISSN: 0163-2116

PUBLISHER: Plenum Publishing Corp.

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 14 Oct 1998

We investigated the effect of rebamipide, a novel antiinflammatory agent, on AB liver damage in a rat model of circulatory shock induced by bacterial endotoxin (E. coli lipopolysaccharide, LPS). Endotoxemia for 6 h resulted in a 5.9-fold rise in the serum levels of nitrite (P < 0.05) with a significant rise in the serum levels of alanine aminotransferase (ALT), aspartate aminotransferase (AST), and lactic dehydrogenase (LDH), suggestive of liver dysfunction. The increased activities of serum ALT, AST, and LDH, but not serum nitrite were significantly inhibited by rebamipide (100 mg/kg, orally for five days). Myeloperoxidase activity in the liver was significantly elevated in the rats with endotoxemia by 2.4-fold (P < 0.05), which was also significantly inhibited by rebamipide. Upon LPS injection, serum TNF-lpha levels peaked at 1 h after LPS (from 167.4 ± 20.0 to 1570.0 ± 100.0 pg/mL) and thereafter rapidly declined. The increased TNF-lpha level measured at 1 h was significantly inhibited by pretreatment with rebamipide (100 mg/kg for five days). It is suggested that rebamipide exerts a strong protective effect on the LPS-induced liver damage through inhibition of activation of neutrophils and $TNF-\alpha$ production

IT 90098-04-7, Rebamipide

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES

(Uses)

RN

(rebamipide protective effect on endotoxemia-induced liver damage through inhibition of neutrophil activation and TNF- α production) 90098-04-7 HCAPLUS

CN 4-Quinolinepropanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)

REFERENCE COUNT: 32 THERE ARE 32 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L126 ANSWER 132 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1998:649833 HCAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 130:60751

TITLE: Rebamipide attenuates gastric microcirculatory

disturbances in the early period after thermal injury

in rats

AUTHOR(S): Yoshida, Masashi; Wakabayashi, Go; Ishikawa, Hideki;

Kitahora, Tetsuji; Otani, Yoshihide; Shimazu,

Motohide; Miura, Soichiro; Ishii, Hiromasa; Kitajima,

Masaki

CORPORATE SOURCE: Department of Surgery, Keio University School of

Medicine, Tokyo, 160, Japan

SOURCE: Digestive Diseases and Sciences (1998),

43(9, Suppl., Inflammation and Mucosal Injury,

Proceedings of the Second Mucosta

International Symposium, 1997), 148S-153S

CODEN: DDSCDJ; ISSN: 0163-2116

PUBLISHER: Plenum Publishing Corp.

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 14 Oct 1998

AB In our previous study we showed that rebamipide attenuated gastric erosions and active oxygen species released only from the gastric mucosa and not from circulating leukocytes after thermal injury. This study was designed to examine whether rebamipide affects the potential of active oxygen generation from circulating leukocytes, and attenuates microcirculatory disturbance caused by thermal injury to skin. Rats were anesthetized and a 30% full skinthickness dorsal burn was inflicted. Microvascular images and leukocytes were observed using in vivo microscopy. Endothelial damage was assessed by monastral blue B deposits. Active oxygen species were measured by the chemiluminescence method. Rebamipide (100 mg/kg) decreased leukocyte rolling

and monastral blue B deposits in venules but did not improve arteriolar contractions 15 min after thermal injury. These results suggest that rebamipide preserves gastric microcirculation possibly through inhibition of leukocyte adhesion and endothelial damage caused by thermal injury to skin.

IT 90098-04-7, Rebamipide

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); THU (Therapeutic use); BIOL (Biological study); USES (Uses)

(rebamipide attenuates gastric microcirculatory disturbances in after thermal injury)

RN 90098-04-7 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)

REFERENCE COUNT: 25 THERE ARE 25 CITED REFERENCES AVAILABLE FOR THIS RECORD. ALL CITATIONS AVAILABLE IN THE RE FORMAT

L126 ANSWER 234 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1989:69207 HCAPLUS <u>Full-text</u>

DOCUMENT NUMBER: 110:69207

TITLE: Healing promoting effect of proamipide, a novel drug

that increases gastric defense mechanisms, on acetic

acid-induced gastric ulcers in the rat

AUTHOR(S): Shiraki, Masahiro; Yamasaki, Katsuya; Ishiyama,

Hironobu; Kanbe, Toshimi; Yabuuchi, Youichi; Asada,

Shuuji; Hirata, Ichiro; Ooshiba, Saburo

CORPORATE SOURCE: 2nd Dep. Intern. Med., Osaka Med. Coll., Takatsuki,

569, Japan

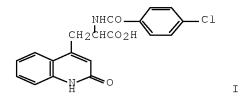
SOURCE: Nippon Yakurigaku Zasshi (1988), 92(6),

389-95

CODEN: NYKZAU; ISSN: 0015-5691

DOCUMENT TYPE: Journal LANGUAGE: Japanese ED Entered STN: 04 Mar 1989

GΙ



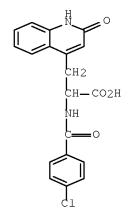
AB Proamipide (I) given at 20 mg/kg/day for 40-160 days starting at 20 days after HOAc-induced stomach ulceration in rats promoted the healing of ulcers.

IT 90098-04-7, Proamipide

RL: BIOL (Biological study)
 (ulcer inhibition by)

RN 90098-04-7 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)



L126 ANSWER 235 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1989:51090 HCAPLUS Full-text

DOCUMENT NUMBER: 110:51090

TITLE: Effect of proamipide (OPC-12759) on gastric mucus

glycoprotein in rats

AUTHOR(S): Ishiyama, Hironobu; Yamasaki, Katsuya; Furukawa,

Masayuki; Kanabe, Toshimitsu

CORPORATE SOURCE: Tokushima Res. Inst., Otsuka Pharm. Co., Ltd., Japan

SOURCE: Yakuri to Chiryo (1973-2000) (1988), 16(10),

4111-18

CODEN: YACHDS; ISSN: 0386-3603

DOCUMENT TYPE: Journal LANGUAGE: Japanese ED Entered STN: 17 Feb 1989

AB Proamipide (orally) was effective against ulcer induced by AcOH or EtOH in rats; decrease in gastric mucus glycoprotein were also inhibited by proamipide, which may be due to stimulation of N-acetylglucosamine kinase activity in the stomach mucosa.

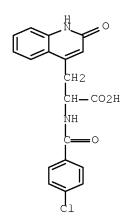
IT 90098-04-7, Proamipide

RL: BIOL (Biological study)

(ulcer inhibition by, gastric mucus glycoprotein increase in)

RN 90098-04-7 HCAPLUS

CN 4-Quinolinepropanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)



L126 ANSWER 236 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1989:51089 HCAPLUS Full-text

DOCUMENT NUMBER: 110:51089

TITLE: Effect of proamipide (OPC-12759) on gastric mucus

secretion in rats

AUTHOR(S): Ishiyama, Hironobu; Yamasaki, Katsuya; Kanabe,

Toshimitsu

CORPORATE SOURCE: Tokushima Res. Inst., Otsuka Pharm. Co., Ltd., Japan

SOURCE: Yakuri to Chiryo (1973-2000) (1988), 16(10),

4103-9

CODEN: YACHDS; ISSN: 0386-3603

DOCUMENT TYPE: Journal LANGUAGE: Japanese ED Entered STN: 17 Feb 1989

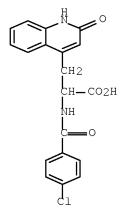
AB Proamipide (OPC 12759) given orally at 1-10 mg/kg twice daily for 3-9 days dose-dependently increased gastric mucus secretion in rats; the increase was better (10-30 times) than that with cetraxate (100 or 300 mg/kg) or gefarnate (300 mg/kg). The results are discussed with regard to the antiulcer mechanism of proamipide.

IT 90098-04-7, Proamipide

RL: BIOL (Biological study)

(ulcer inhibition by, gastric mucus secretion increase in)

RN 90098-04-7 HCAPLUS



L126 ANSWER 237 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1988:504557 HCAPLUS Full-text

DOCUMENT NUMBER: 109:104557

TITLE: Effect of OPC-12759 on rat gastric acid secretion AUTHOR(S): Yamasaki, Katsuya; Imaizumi, Takashi; Ishiyama, Hironobu; Kanbe, Toshimi; Yabuuchi, Youichi

CORPORATE SOURCE: 2nd Tokushima Inst. New Drug Res., Otsuka Pharm. Co.,

Ltd., Japan

SOURCE: Yakuri to Chiryo (1973-2000) (1988), 16(6),

2487-95

CODEN: YACHDS; ISSN: 0386-3603

DOCUMENT TYPE: Journal LANGUAGE: Japanese ED Entered STN: 01 Oct 1988

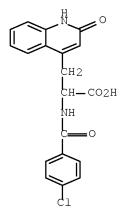
AB OPC-12759 did not reduce the secretion volume of gastric juice or inhibit gastric acid secretion and pepsin activity in pylorus-ligated rats at antiulcer doses of 0.3-30 mg/kg when administered orally twice daily for 1 wk. However, after i.p. administration the compound inhibited basal gastric secretion in a dose-dependent manner, and the effects on the secretion volume of gastric juice, total acidity, and pepsin secretion were significant at 100 mg/kg. The compound did not inhibit gastric acid secretion stimulated with histamine, tetragastrin, or carbachol. Thus, the antiulcer effect of i.p. administered OPC-12759 is at least partially due to its inhibitory effect on basal gastric secretion and the antiulcer effect of repeated oral administration of the compound is not related to its inhibitory effect on acid release-stimulating factors.

IT 90098-04-7, OPC 12759

RL: BIOL (Biological study)

(ulcer inhibition by, mechanism of)

RN 90098-04-7 HCAPLUS



L126 ANSWER 238 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1988:504537 HCAPLUS Full-text

DOCUMENT NUMBER: 109:104537

TITLE: Antiulcer activity of OPC-12759 in experimental

gastric ulcer models

AUTHOR(S): Yamasaki, Katsuya; Ishiyama, Hironobu; Imaizumi,

Takashi; Kanbe, Toshimi; Yabuuchi, Yoichi

CORPORATE SOURCE: 1nd Tokushima Inst. New Drug Res., Otsuka Pharm. Co.,

Ltd., Japan

SOURCE: Yakuri to Chiryo (1973-2000) (1988), 16(5),

1997-2005

Т

CODEN: YACHDS; ISSN: 0386-3603

DOCUMENT TYPE: Journal LANGUAGE: Japanese ED Entered STN: 01 Oct 1988

GΙ

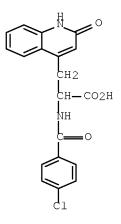
AB OPC 12759 (I) given orally dose-dependently promoted the healing of acetic acid-induced ulcers in rats, whereas cetraxate and gefarnate did not. Oral or i.p. injection of I was also effective against acute ulcer induced by water-immersion stress, aspirin, and indomethacin. The antiulcer mechanism of I may be due to inhibition of gastric acid secretion and cytoprotection of the mucosa.

IT 90098-04-7, OPC 12759

RL: BIOL (Biological study)

(stomach ulcer inhibition by, mechanism of)

RN 90098-04-7 HCAPLUS



L126 ANSWER 239 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN

ACCESSION NUMBER: 1988:21690 HCAPLUS Full-text

DOCUMENT NUMBER: 108:21690

TITLE: Studies on 2(1H)-quinolinone derivatives as gastric

antiulcer active agents. Synthesis and antiulcer

activities of optically active α -amino acid derivatives of 2(1H)-quinolinone and oxindole Uchida, Minoru; Tabusa, Fujio; Komatsu, Makoto;

Morita, Seiji; Kanbe, Toshimi; Nakagawa, Kazuyuki

CORPORATE SOURCE: Tokushima Res. Inst., Otsuka Pharm. Co., Ltd.,

Tokushima, 771-01, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1987),

35(2), 853-6

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 108:21690

ED Entered STN: 23 Jan 1988

GΙ

AUTHOR(S):

AB To study the relationship of structure to antiulcer activity, optically active α -amino acid derivs. of 2(1H)-quinolinone and oxindole were synthesized and tested for antiulcer activity against AcOH-induced gastric ulcer in rats. The

enantiomers of (chlorobenzoylamino)quinolylpropionic acid I were obtained by optical resolution with (-)-brucine. The

(chlorobenzoylamino)oxoindolepropionic acids II having different absolute configurations at the $\alpha-$ amino acid moiety were synthesized by oxidation of N-(4-chlorobenzoyl)-L- or -D-tryptophan. The antiulcer activity did not seem to be influenced by the $\alpha-$ amino acid chirality.

IT 111911-88-7 111911-90-1

RL: RCT (Reactant); RACT (Reactant or reagent) (condensation with chiral Me benzylamine and ulcer inhibiting activity of)

RN 111911-88-7 HCAPLUS

CN 4-Quinolinepropanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo-, (S)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

RN 111911-90-1 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo-, (R)- (9CI) (CA INDEX NAME)

Absolute stereochemistry.

IT 111911-89-8P

RL: RCT (Reactant); SPN (Synthetic preparation); PREP (Preparation); RACT (Reactant or reagent)

(preparation and decomposition of)

RN 111911-89-8 HCAPLUS

CN Strychnidin-10-one, 2,3-dimethoxy-, mono[(S)- α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo-4-quinolinepropanoate] (9CI) (CA INDEX NAME)

CM 1

CRN 111911-88-7

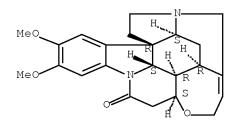
CMF C19 H15 C1 N2 O4

Absolute stereochemistry.

2 CM

CRN 357-57-3 CMF C23 H26 N2 O4

Absolute stereochemistry.



111911-91-2P 111911-92-3P ΙT RL: SPN (Synthetic preparation); PREP (Preparation) (preparation of)

111911-91-2 HCAPLUS RN

4-Quinolinepropanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-CN oxo-, (S)-, compd. with (R)- α -methylbenzenemethanamine (1:1) (9CI) (CA INDEX NAME)

СМ 1

CRN 111911-88-7

CMF C19 H15 C1 N2 O4

Absolute stereochemistry.

CM 2

CRN 3886-69-9 CMF C8 H11 N

Absolute stereochemistry. Rotation (+).

RN 111911-92-3 HCAPLUS

CN 4-Quinolinepropanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo-, (R)-, compd. with (R)- α -methylbenzenemethanamine (1:1) (9CI) (CA INDEX NAME)

CM 1

CRN 111911-90-1

CMF C19 H15 C1 N2 O4

Absolute stereochemistry.

CM 2

CRN 3886-69-9 CMF C8 H11 N

Absolute stereochemistry. Rotation (+).

IT 90098-04-7

RL: PROC (Process)
(resolution of)

RN 90098-04-7 HCAPLUS

CN 4-Quinolinepropanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)

L126 ANSWER 240 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1988:16101 HCAPLUS Full-text

DOCUMENT NUMBER: 108:16101

TITLE: Gastric mucosal protection by OPC-12759, a novel

antiulcer compound, in the rat

AUTHOR(S): Yamasaki, Katsuya; Kanbe, Toshimi; Chijiwa, Takashi;

Ishiyama, Hironobu; Morita, Seiji

CORPORATE SOURCE: Otsuka Pharm. Co., Ltd., Tokushima Res. Inst.,

Tokushima, 771-01, Japan

SOURCE: European Journal of Pharmacology (1987),

142(1), 23-9

Ι

CODEN: EJPHAZ; ISSN: 0014-2999

DOCUMENT TYPE: Journal LANGUAGE: English ED Entered STN: 23 Jan 1988

GI

AB OPC-12759 (I) dose-dependently prevented the formation in rats of mucosal necrosis induced by EtOH, 0.2N NaOH, or 0.6N HCl. PGE2 also prevented the gastric mucosal erosion induced by necrotizing agents. The mucosal-protective effect of I was completely counteracted by pretreatment with indomethacin, while that of PGE2 was not. In addition, I given alone increased the generation of gastric mucosal PGE2-like activity. I dose-dependently reduced the volume, acid output, and pepsin output of the gastric juice in pylorus-ligated rats. The inhibitory effect of I, but not that of cimetidine or atropine, on gastric secretion was also abolished by concurrent administration of indomethacin. The mucosal-protective effect and antisecretory effect of I may result from increased formation of endogeneous prostaglandins.

IT 90098-04-7

RL: BIOL (Biological study)

(stomach mucosa damage inhibition by, prostaglandin formation in relation to)

RN 90098-04-7 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)

L126 ANSWER 241 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1987:458812 HCAPLUS Full-text

DOCUMENT NUMBER: 107:58812

ORIGINAL REFERENCE NO.: 107:9761a,9764a

TITLE: Studies on 2(1H)-quinolinone derivatives as gastric

antiulcer active agents. Synthesis and antiulcer

activity of the metabolites of 2-(4-

chlorobenzoylamino) -3-[2(1H)-quinolinon-4-yl]propionic

acid

AUTHOR(S): Uchida, Minoru; Tabusa, Fujio; Komatsu, Makoto;

Morita, Seiji; Kanbe, Toshimi; Nakagawa, Kazuyuki

CORPORATE SOURCE: Tokushima Res. Inst., Otsuka Pharm. Co., Ltd.,

Tokushima, 771-01, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1986),

34(11), 4821-4

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal

LANGUAGE: English

OTHER SOURCE(S): CASREACT 107:58812

ED Entered STN: 21 Aug 1987

GΙ

Quinolinones I (R = H, R1 = OH; R = OH, R1 = H), which are metabolites of antiulcer compound OPC-12759 (I; R = R1 = H), were prepared from methoxyanilines II (R = H, R1 = OMe; R = OMe, R1 = H) and their antiulcer activity tested. Thus, II were cyclized with polyphosphoric acid to give quinolinones III (R2 = Br), which were condensed with AcNHCH(CO2Et)2 to give III [R2 = (EtO2C)2(AcNH)C]. These were treated with HBr followed by acylation with p-ClC6H4COCl to give I. Metabolites I (R = H, R1 = OH; R = OH, R1 = H) were tested for antiulcer activity against acetic acid-induced gastric ulcers in rats but showed lower potency than the parent compound I (R = R1 = H).

IT 90098-82-1P 109387-73-7P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and antiulcer activity of)

RN 90098-82-1 HCAPLUS

RN 109387-73-7 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-8-hydroxy-2-oxo- (CA INDEX NAME)

IT 90098-04-7P

RL: SPN (Synthetic preparation); PREP (Preparation) (preparation and antiulcer activity of metabolites of)

RN 90098-04-7 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)

L126 ANSWER 242 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1987:50063 HCAPLUS Full-text

DOCUMENT NUMBER: 106:50063

ORIGINAL REFERENCE NO.: 106:8291a,8294a

TITLE: Carbostyril derivatives

PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan

SOURCE: Jpn. Kokai Tokkyo Koho, 78 pp.

CODEN: JKXXAF

DOCUMENT TYPE: Patent LANGUAGE: Japanese

FAMILY ACC. NUM. COUNT:

PATENT INFORMATION:

PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
JP 60019767	А	19850131	JP 1983-126498	19830711 <
JP 02061923	В	19901221		
JP 01308258	A	19891212	JP 1989-109540	19890427 <
JP 05009429	В	19930204		
JP 05065273	A	19930319	JP 1992-55120	19920313 <
PRIORITY APPLN. INFO.:	:		JP 1983-126498	19830711 <
			JP 1989-109540	19890427 <

I

OTHER SOURCE(S): CASREACT 106:50063

Entered STN: 21 Feb 1987 ΕD

GΙ

$$X_n$$
CH—C(COR²)NR³R⁴

AΒ The title compds. [I; R = H, alkyl, alkenyl, alkynyl, phenylalkyl; R1 = H, halo, OH, (substituted) BzO, alkyl, alkoxy; R2 = OH, NH2, cycloalkylalkylamino, alkoxy, alkoxycarbonylalkoxy, etc.; R3 = H, OH, substituted PhSO2, etc.; R4 = H, substituted PhSO2; X = alkylene; n = 0, 1], useful as antiulcer agents, are prepared Thus, refluxing a mixture of 5 g Et 2-acetamido-2-carboxy-3 (1,2-dihydro-2-oxo-4-quinolinyl)propionate [obtained by treating 4-(bromomethyl)carbostyril with AcNHCH(CO2Et) in HOEt/NaOEt] and 150 mL 20% HCl for 9 h gave 3.2 g 2-amino-3-(1,2-dihydro-2- oxo-4quinolinyl)propionic acid-HCl.H2O. At 10 mg/kg orally twice daily 37 tested I inhibited ulcers by 13.5-38.5% in rats.

ΤТ 90098-04-7P 90098-05-8P 90098-08-1P 90098-19-4P 90098-42-3P 90098-67-2P

90098-81-0P 90098-82-1P 90098-83-2P

90098-84-3P 90098-85-4P

RL: SPN (Synthetic preparation); PREP (Preparation)

(preparation of, as anti-ulcer agent)

90098-04-7 HCAPLUS RN

RN 90098-05-8 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(3-chlorobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)

RN 90098-08-1 HCAPLUS

RN 90098-19-4 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-8-methyl-2-oxo- (CA INDEX NAME)

RN 90098-42-3 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-bromobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)

RN 90098-67-2 HCAPLUS

RN 90098-81-0 HCAPLUS

CN 4-Quinoline propanoic acid, 8-chloro- α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)

RN 90098-82-1 HCAPLUS

RN 90098-83-2 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-6-methoxy-2-oxo- (CA INDEX NAME)

RN 90098-84-3 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoyl)amino]-8-ethyl-1,2-dihydro-2-oxo- (CA INDEX NAME)

RN 90098-85-4 HCAPLUS

CN 4-Quinolinepropanoic acid, α -[(4-chlorobenzoyl)amino]-6-[(4-chlorobenzoyl)oxy]-1,2-dihydro-2-oxo- (CA INDEX NAME)

L126 ANSWER 243 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1986:497287 HCAPLUS Full-text

DOCUMENT NUMBER: 105:97287

ORIGINAL REFERENCE NO.: 105:15717a,15720a

TITLE: Studies on 2(1H)-quinolinone derivatives as gastric

antiulcer active agents. 2-(4-Chlorobenzoylamino)-3-[2(1H)-quinolinon-4-yl]propionic acid and related

compounds

AUTHOR(S): Uchida, Minoru; Tabusa, Fujio; Komatsu, Makoto;

Morita, Seiji; Kanbe, Toshimi; Nakagawa, Kazuyuki

CORPORATE SOURCE: Tokushima Res. Inst., Otsuka Pharm. Co., Ltd.,

Tokushima, 771-01, Japan

SOURCE: Chemical & Pharmaceutical Bulletin (1985),

33(9), 3775-86

CODEN: CPBTAL; ISSN: 0009-2363

DOCUMENT TYPE: Journal LANGUAGE: English

OTHER SOURCE(S): CASREACT 105:97287

ED Entered STN: 19 Sep 1986

GΙ

AB N-Acyl amino acid analogs of 2(1H)-quinolinone, e.g., I, were prepared and tested for antiulcer activity in rats. These compds. were prepared by acylation of amino acid derivs. of 2(1H)-quinolinone, which were obtained from the reaction of ω -bromoalkyl-2(1H)-quinolinones and acetamidomalonate in the presence of NaOEt, followed by hydrolysis with dilute HCl. I had the most potent activity.

IT 90098-04-7P 90098-05-8P 90098-08-1P 90098-42-3P

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and antiulcer activity of)

RN 90098-04-7 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)

Ι

RN 90098-05-8 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(3-chlorobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)

RN 90098-08-1 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(3,4-dichlorobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)

RN 90098-42-3 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-bromobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)

L126 ANSWER 244 OF 244 HCAPLUS COPYRIGHT 2008 ACS on STN ACCESSION NUMBER: 1984:454936 HCAPLUS <u>Full-text</u> DOCUMENT NUMBER: 101:54936

ORIGINAL REFERENCE NO.: 101:8532h,8533a

TITLE: Carbostyril derivatives and pharmaceuticals containing

INVENTOR(S): Uchida, Minoru; Komastu, Makoto; Nakagawa, Kazuyuki

PATENT ASSIGNEE(S): Otsuka Pharmaceutical Co., Ltd., Japan

Ger. Offen., 198 pp. SOURCE:

CODEN: GWXXBX

DOCUMENT TYPE: Patent LANGUAGE: German

FAMILY ACC. NUM. COUNT: 1

PATENT INFORMATION:

DE 3324034 Al 19840105 DE 1983-3324034 19830704 < DE 3324034 C2 19930701 JP 59007168 A 19840114 JP 1982-117311 19820705 < JP 63035623 B 19880715 JP 59007169 A 19840114 JP 1982-117312 19820705 < JP 03028425 B 19910419 FI 80022 B 19891229 FI 80022 C 19900410 US 4578381 A 19860325 US 1983-510241 19830701 < BE 897208 Al 19840106 BE 1983-211114 19830704 < DK 168288 Bl 19940307 NO 8302431 A 19840106 DK 1983-3078 19830704 < NO 164835 B 19900813 NO 164835 C 19901121 SE 8303813 A 19840106 SE 1983-3813 19830704 < SE 462848 B 19900910 SE 462848 C 19910117 AU 8316536 A 19840106 SE 1983-3813 19830704 < AU 552717 B2 19860228 CH 1983-3667 19830704 < AU 552717 B2 19860219 CH 654578 A5 19860228 CH 1983-3667 19830704 < AU 552717 B2 19860619 CH 654578 A5 19860228 CH 1983-3667 19830704 < AU 552717 B2 19860619 CH 654578 A5 19860228 CH 1983-3667 19830704 < AU 552706 B 19804011 CA 1247624 Al 19881227 CA 1983-431763 19830704 < AU 355066 B 19804011 CA 1247624 Al 19881227 CA 1983-431763 19830704 < AU 35250626 Al 19840201 NL 1983-2451 19830705 < FR 2530626 Al 19840205 NL 8302390 A 19840201 NL 1983-2390 19830705 < FR 2530626 Bl 1986125 NL 8302390 A 19840201 NL 1983-2390 19830705 < ES 530715 A5 19850614 ES 1983-4901 19830705 < ES 530715 A5 19850614 ES 1983-4901 19830705 < ES 530715 A5 19850614 ES 1984-530715 19840316 < DE 300711Y APPLN. INFO.:	PATENT NO.	KIND	DATE	APPLICATION NO.		DATE
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				JP 1982-117312	Α	19820705 <

US 1983-510241 A5 19830701 <--

OTHER SOURCE(S): MARPAT 101:54936

ED Entered STN: 18 Aug 1984

GΙ

$$R^{1}$$
 R^{1}
 R^{1

Title compds. I [R = H, lower alkyl, alkenyl, alkynyl, phenylalkyl; R1 = H, halo, (halo)benzoyloxy, OH, lower alkyl, alkoxy; R2 = OH, acid derivative; R3 = H, aroyl, arylsulfonyl, etc.; R4 = H, arylsulfonyl; Z = lower alkylene, n = 0, 1; dotted lines signify possible double bonds] and intermediates for them (.apprx.220 in all) were prepared in several conventional ways and shown in some cases to be more active as ulcer-healing agents than sucralfat. Typical of compds. prepared and tested were II and III.

IT 90098-04-7F 90098-05-8F 90098-08-1F 90098-19-4F

RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); BIOL (Biological study); PREP (Preparation)

(preparation and antiulcer activity of)

RN 90098-04-7 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)

RN 90098-05-8 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(3-chlorobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)

RN 90098-08-1 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(3,4-dichlorobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)

RN 90098-19-4 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-8-methyl-2-oxo- (CA INDEX NAME)

IT 90098-42-3P 90098-67-2P 90098-81-0P 90098-82-1P 90098-83-2P 90098-84-3P 90098-85-4P RL: BAC (Biological activity or effector, except adverse); BSU (Biological study, unclassified); SPN (Synthetic preparation); THU (Therapeutic use); BIOL (Biological study); PREP (Preparation); USES (Uses) (preparation of, as antiulcer agent) RN 90098-42-3 HCAPLUS CN 4-Quinolinepropanoic acid, α -[(4-bromobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)

RN 90098-67-2 HCAPLUS CN 4-Quinolinepropanoic acid, α -[(2,4-dichlorobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)

RN 90098-81-0 HCAPLUS

CN 4-Quinoline propanoic acid, 8-chloro- α -[(4-chlorobenzoyl)amino]-1,2-dihydro-2-oxo- (CA INDEX NAME)

RN 90098-82-1 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-6-hydroxy-2-oxo- (CA INDEX NAME)

RN 90098-83-2 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoyl)amino]-1,2-dihydro-6-methoxy-2-oxo- (CA INDEX NAME)

RN 90098-84-3 HCAPLUS

CN 4-Quinoline propanoic acid, α -[(4-chlorobenzoyl)amino]-8-ethyl-1,2-dihydro-2-oxo- (CA INDEX NAME)

RN 90098-85-4 HCAPLUS

CN 4-Quinolinepropanoic acid, α -[(4-chlorobenzoyl)amino]-6-[(4-chlorobenzoyl)oxy]-1,2-dihydro-2-oxo- (CA INDEX NAME)

Search History

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L2
L3
            49 SEA SSS FUL L1
L4
               STRUCTURE UPLOADED
L5
             2 SEA SUB=L3 SSS SAM L4
L6
            40 SEA SUB=L3 SSS FUL L4
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L7
           305 SEA ABB=ON PLU=ON L6
L8
           245 SEA ABB=ON PLU=ON L7 AND (PRY<=2004 OR AY<=2004 OR PY<=2004)
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L10
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L11
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L12
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               D SAVE
               ACT PAG214HC1A/A
             1) SEA ABB=ON PLU=ON "4-OUINOLINEPROPANOIC ACID, A-((4-CHL
L13 (
               OROBENZOYL) AMINO) -1, 2-DIHYDRO-2-OXO-"/CN
L14
               STR
           77)SEA SSS FUL L14
L15 (
L16 (
          302) SEA ABB=ON PLU=ON L13
          312) SEA ABB=ON PLU=ON L15
L17 (
L18 (
          242) SEA ABB=ON PLU=ON L16 AND (PRY<=2004 OR AY<=2004 OR PY<=2004)
L19 (
          337) SEA ABB=ON PLU=ON MOUTH, DISEASE+NT/CT(L) XEROSTOMIA/OBI
         2889) SEA ABB=ON PLU=ON SJOGREN SYNDROME+OLD/CT
L20 (
       17437) SEA ABB=ON PLU=ON SALIVA/CT
L21 (
L22 (
           76)SEA ABB=ON PLU=ON L19 AND L21
L23 (
           53) SEA ABB=ON PLU=ON L22 AND (PRY<=2004 OR AY<=2004 OR PY<=2004)
L24 (
            1) SEA ABB=ON PLU=ON L18 AND L23
L25 (
            1) SEA ABB=ON PLU=ON L18 AND L19
L26 (
            1) SEA ABB=ON PLU=ON L18 AND L20
            1)SEA ABB=ON PLU=ON L17 AND L19
L27 (
L28 (
             1) SEA ABB=ON PLU=ON L17 AND L20
         17437) SEA ABB=ON PLU=ON SALIVA/CT
L29 (
L30 (
             1) SEA ABB=ON PLU=ON (L16 OR L17) AND L29
             1 SEA ABB=ON PLU=ON (L25 OR L26 OR L27 OR L28 OR L30 OR L24)
L31
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               ACT PAG214HC11A/A
L32 (
          1834) SEA ABB=ON PLU=ON OKA H?/AU
           75) SEA ABB=ON PLU=ON KOHASHI M?/AU
L33 (
L34 (
          107) SEA ABB=ON PLU=ON NAGAMOTO H?/AU
L35 (
          2014) SEA ABB=ON PLU=ON (L32 OR L33 OR L34)
             1) SEA ABB=ON PLU=ON "4-QUINOLINEPROPANOIC ACID, A-((4-CHL
L36 (
               OROBENZOYL) AMINO) -1, 2-DIHYDRO-2-OXO-"/CN
L37 (
           302) SEA ABB=ON PLU=ON L36
             2 SEA ABB=ON PLU=ON L35 AND L37
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ACT PAG214HC5AU/A

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L39 (
          1834) SEA ABB=ON PLU=ON OKA H?/AU
L40 (
           75) SEA ABB=ON PLU=ON KOHASHI M?/AU
           107) SEA ABB=ON PLU=ON NAGAMOTO H?/AU
L41 (
L42
          2014 SEA ABB=ON PLU=ON (L39 OR L40 OR L41)
              ACT PAG214HC2A/A
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L43 (
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               OROBENZOYL) AMINO) -1, 2-DIHYDRO-2-OXO-"/CN
L44
               STR
           77)SEA SSS FUL L44
L45 (
          302) SEA ABB=ON PLU=ON L43
L46 (
L47 (
          312) SEA ABB=ON PLU=ON L45
          312 SEA ABB=ON PLU=ON (L46 OR L47)
L48
            2 SEA ABB=ON PLU=ON L48 AND L42
L49
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L50 (
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               OROBENZOYL) AMINO) -1, 2-DIHYDRO-2-OXO-"/CN
L51
               SEL PLU=ON L50 1- NAME : 4 TERMS
L52 (
          194) SEA ABB=ON PLU=ON L51
L53 (
          194) SEA ABB=ON PLU=ON L50 OR L52
        10384) SEA ABB=ON PLU=ON XEROSTOMIA+NT/CT
L54 (
            0)SEA ABB=ON PLU=ON L53 AND L54
L55 (
         2398) SEA ABB=ON PLU=ON DRY? (A) MOUTH OR DECREASE (A) SALIV?
L56 (
L57 (
            0)SEA ABB=ON PLU=ON L53 AND L56
L58
             O SEA ABB=ON PLU=ON (L55 OR L57)
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              ACT PAG214MD1AU/A
          1834) SEA ABB=ON PLU=ON OKA H?/AU
L59 (
L60 (
           75)SEA ABB=ON PLU=ON KOHASHI M?/AU
L61 (
          107) SEA ABB=ON PLU=ON NAGAMOTO H?/AU
L62 (
         2014) SEA ABB=ON PLU=ON (L59 OR L60 OR L61)
            1) SEA ABB=ON PLU=ON "4-QUINOLINEPROPANOIC ACID, A-((4-CHL
L63 (
               OROBENZOYL) AMINO) -1, 2-DIHYDRO-2-OXO-"/CN
               SEL PLU=ON L63 1- NAME : 4 TERMS
L64
          194) SEA ABB=ON PLU=ON L64
L65 (
          194) SEA ABB=ON PLU=ON L63 OR L65
L66 (
L67 (
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L68
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L69 (
               OROBENZOYL) AMINO) -1, 2-DIHYDRO-2-OXO-"/CN
1.70
               SEL PLU=ON L69 1- NAME : 4 TERMS
L71 (
          311) SEA ABB=ON PLU=ON L70
L72 (
          311) SEA ABB=ON PLU=ON L69 OR L71
L73 (
        65571) SEA ABB=ON PLU=ON XEROSTOMIA OR ASIALIA OR HYPOSALIV? OR
               SALIV? OR MOUTH DRYNESS OR DRY MOUTH OR HYPO SALIV?
             1 SEA ABB=ON PLU=ON L72 AND L73
L74
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ACT PAG214BI2A/A

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             1) SEA ABB=ON PLU=ON "4-QUINOLINEPROPANOIC ACID, A-((4-CHL
L75 (
               OROBENZOYL) AMINO) -1, 2-DIHYDRO-2-OXO-"/CN
               SEL PLU=ON L75 1- NAME : 4 TERMS
L76
          311) SEA ABB=ON PLU=ON L76
L77 (
L78 (
          311) SEA ABB=ON PLU=ON L75 OR L77
L79 (
          8804) SEA ABB=ON PLU=ON XEROSTOMIA/BI, ABEX OR ASIALIA/BI, ABEX OR
               HYPOSALIV?/BI,ABEX OR SALIV?/BI,ABEX OR MOUTH/BI,ABEX (A) DRY###
               ##/BI,ABEX OR HYPO SALIV?/BI,ABEX
L80
             1 SEA ABB=ON PLU=ON L79 AND L78
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               ACT PAG214BI1AU/A
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L81 (
          1834) SEA ABB=ON PLU=ON OKA H?/AU
           75) SEA ABB=ON PLU=ON KOHASHI M?/AU
L82 (
           107) SEA ABB=ON PLU=ON NAGAMOTO H?/AU
L83 (
L84 (
         2014) SEA ABB=ON PLU=ON (L81 OR L82 OR L83)
            1) SEA ABB=ON PLU=ON "4-QUINOLINEPROPANOIC ACID, A-((4-CHL
L85 (
               OROBENZOYL) AMINO) -1, 2-DIHYDRO-2-OXO-"/CN
               SEL PLU=ON L85 1- NAME :
L86
                                               4 TERMS
           311) SEA ABB=ON PLU=ON L86
L87 (
L88 (
           311)SEA ABB=ON PLU=ON L85 OR L87
L89
             2 SEA ABB=ON PLU=ON L84 AND L88
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L90 (
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               SEL PLU=ON L90 1- NAME :
L91
                                               4 TERMS
L92 (
           28) SEA ABB=ON PLU=ON L91
L93 (
          8795)SEA ABB=ON PLU=ON XEROSTOMIA/BI,ABEX OR ASIALIA/BI,ABEX OR
               HYPOSALIV?/BI,ABEX OR SALIV?/BI,ABEX OR MOUTH DRYNESS/BI,ABEX
               OR DRY MOUTH/BI, ABEX OR HYPO SALIV?/BI, ABEX
L94 (
             0) SEA ABB=ON PLU=ON L92 AND L93
L95 (
          8804)SEA ABB=ON PLU=ON XEROSTOMIA/BI,ABEX OR ASIALIA/BI,ABEX OR
               HYPOSALIV?/BI, ABEX OR SALIV?/BI, ABEX OR MOUTH/BI, ABEX (A) DRY###
               ##/BI, ABEX OR HYPO SALIV?/BI, ABEX
             0)SEA ABB=ON PLU=ON L92 AND L95
L96 (
             O SEA ABB=ON PLU=ON (L94 OR L96)
L97
              _____
              ACT PAG214WX1AU/A
          1834) SEA ABB=ON PLU=ON OKA H?/AU
L98 (
           75) SEA ABB=ON PLU=ON KOHASHI M?/AU
L99 (
           107) SEA FILE=HCAPLUS ABB=ON PLU=ON NAGAMOTO H?/AU
L100(
L101(
          2014) SEA FILE=HCAPLUS ABB=ON PLU=ON (L98 OR L99 OR L100)
L102(
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L103
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            28) SEA FILE=WPIX ABB=ON PLU=ON L103
L104(
             0 SEA ABB=ON PLU=ON L101 AND L104
L105
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             ACT PAG214EM1A/A
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L107	SEL PLU=ON L106 1- NAME: 4 TERMS 323)SEA FILE=EMBASE ABB=ON PLU=ON L107
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L109(323)SEA FILE=EMBASE ABB=ON PLU=ON L106 OR L108
L110(57132) SEA FILE=EMBASE ABB=ON PLU=ON XEROSTOMIA OR ASIALIA OR HYPOSA
L111	
	ACT PAG214EM1AU/A
	1834)SEA FILE=HCAPLUS ABB=ON PLU=ON OKA H?/AU
	75)SEA FILE=HCAPLUS ABB=ON PLU=ON KOHASHI M?/AU
L114(107)SEA FILE=HCAPLUS ABB=ON PLU=ON NAGAMOTO H?/AU
L115(2014)SEA FILE=HCAPLUS ABB=ON PLU=ON (L112 OR L113 OR L114)
L116(1) SEA FILE=REGISTRY ABB=ON PLU=ON "4-QUINOLINEPROPANOIC ACID, . SEL PLU=ON L116 1- NAME: 4 TERMS 323) SEA FILE=EMBASE ABB=ON PLU=ON L117
L117	SEL PLU=ON L116 1- NAME : 4 TERMS
L118(323)SEA FILE=EMBASE ABB=ON PLU=ON L117
L119(323)SEA FILE=EMBASE ABB=ON PLU=ON L116 OR L118
L120	2 SEA ABB=ON PLU=ON L119 AND L115
FILE	'BIOSIS, EMBASE, HCAPLUS' ENTERED AT 11:10:56 ON 21 MAR 2008
L121	5 DUP REM L68 L89 L120 L105 L49 (1 DUPLICATE REMOVED)
FILE	'HCAPLUS' ENTERED AT 11:11:23 ON 21 MAR 2008
L122	0 SEA ABB=ON PLU=ON (L38 OR L31) NOT L49
L123	1 SEA ABB=ON PLU=ON (L74 OR L80) NOT L89
L124	1 SEA ABB=ON PLU=ON L111 NOT L120
FILE	'BIOSIS, EMBASE' ENTERED AT 11:13:11 ON 21 MAR 2008
L125	2 DUP REM L122 L123 L124 (O DUPLICATES REMOVED)
FILE	'HCAPLUS' ENTERED AT 11:13:35 ON 21 MAR 2008
L126	244 SEA ABB=ON PLU=ON L8 NOT (L49 OR L31 OR L38)